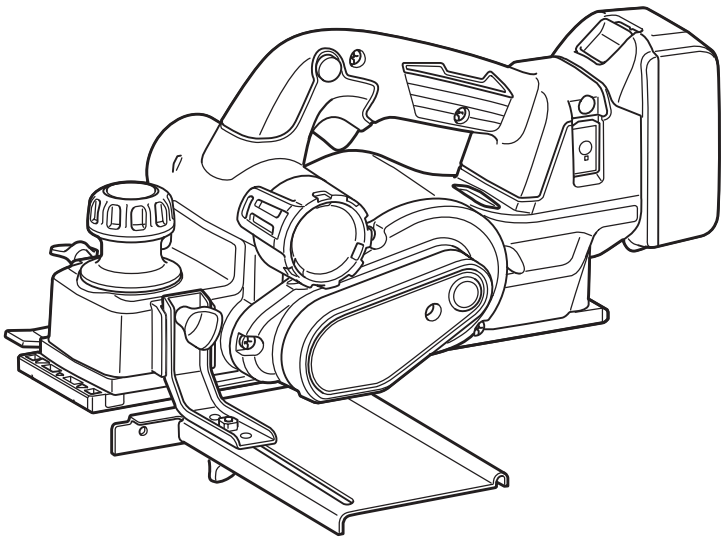
EN	Cordless Planer	INSTRUCTION MANUAL	9
SV	Batteridriven handhyvel	BRUKSANVISNING	21
NO	Trådløs høvel	BRUKSANVISNING	33
FI	Akkukäyttöinen höylä	KÄYTTÖOHJE	45
LV	Bezvadu ēvele	LIETOŠANAS INSTRUKCIJA	57
LT	Belaidis oblius	NAUDOJIMO INSTRUKCIJA	69
ET	Juhtmeta höövel	KASUTUSJUHEND	81
RU	Аккумуляторный рубанок	РУКОВОДСТВО ПО ЭКСПЛУАТАЦИИ	93

DKP181



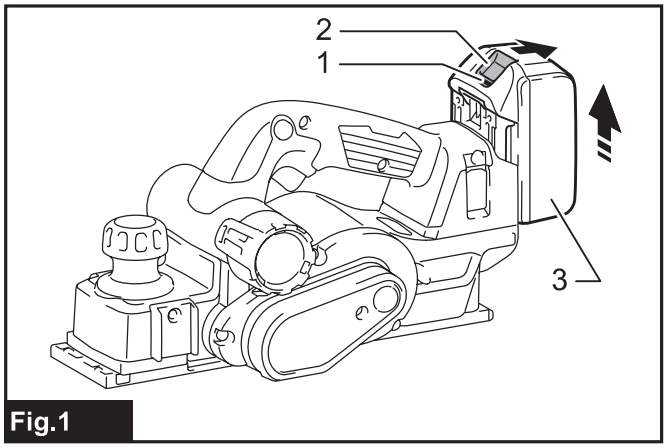


Fig.1

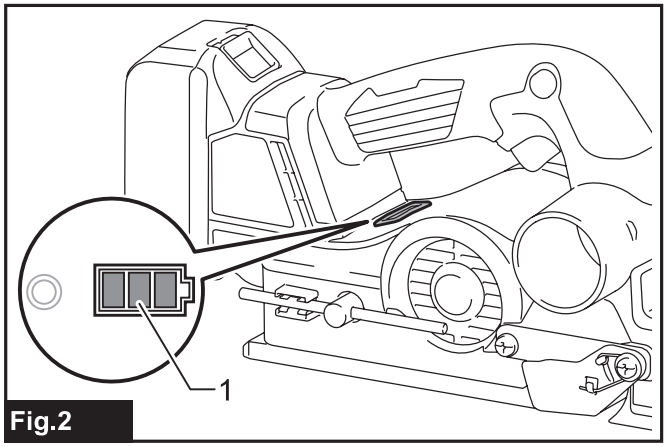


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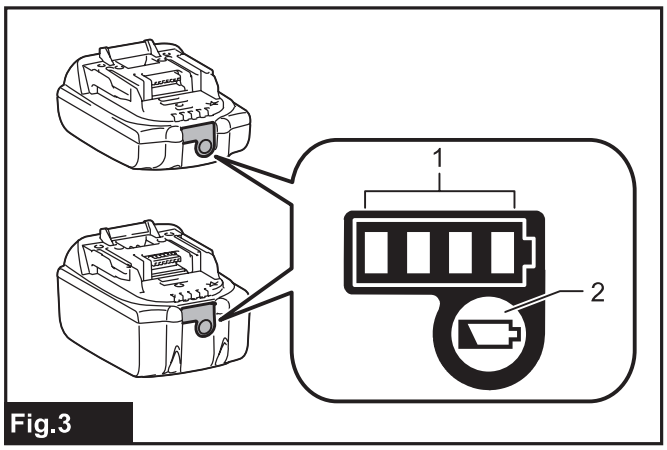


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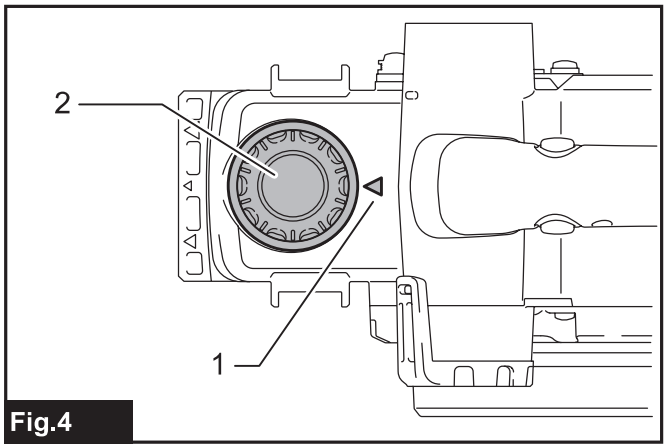


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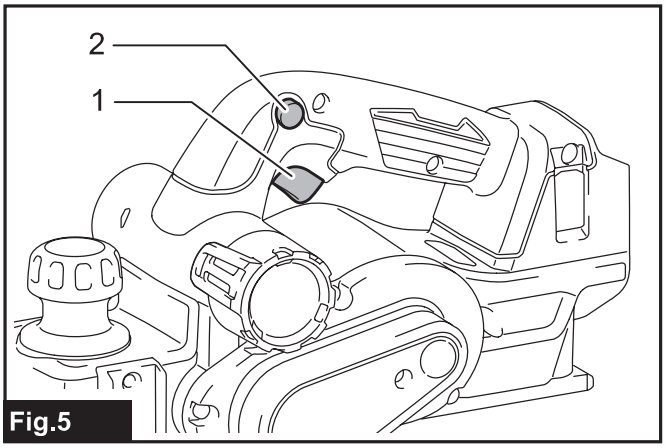


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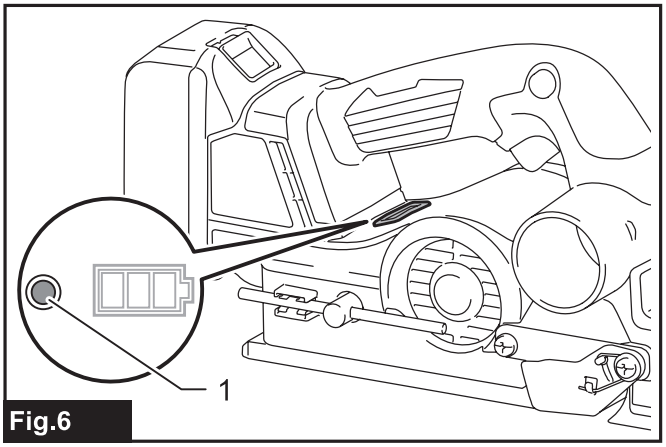


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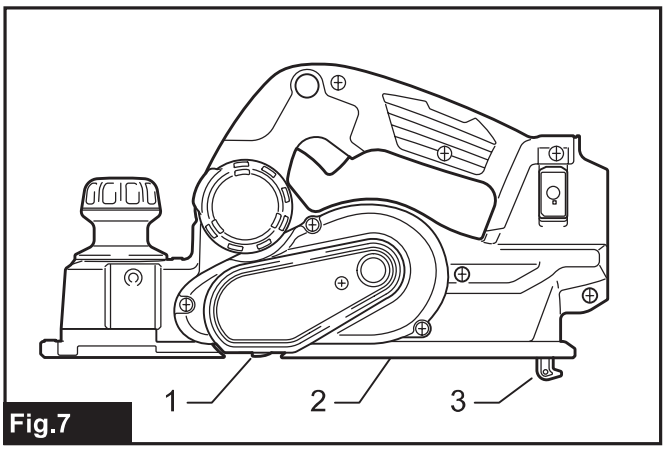


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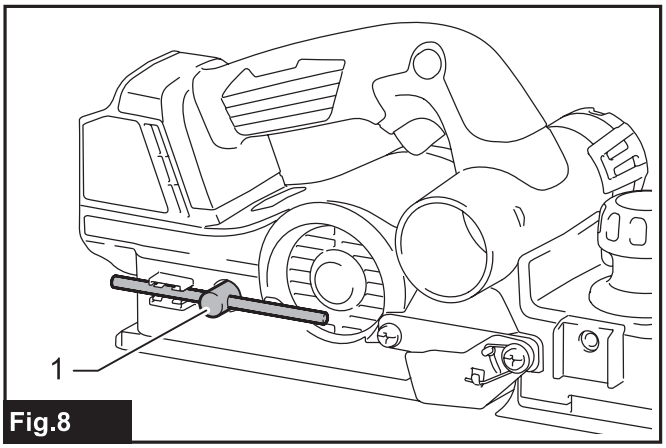


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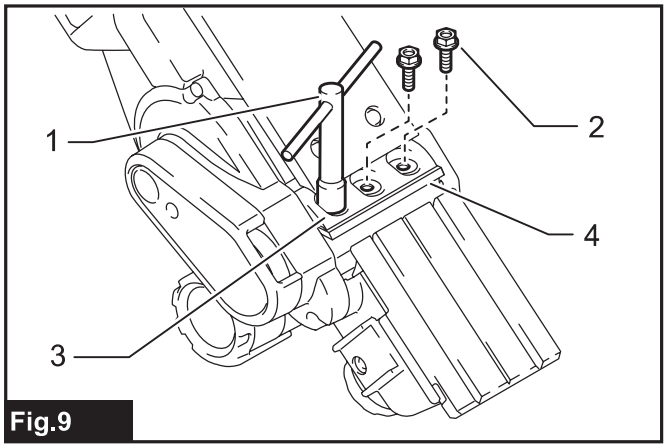


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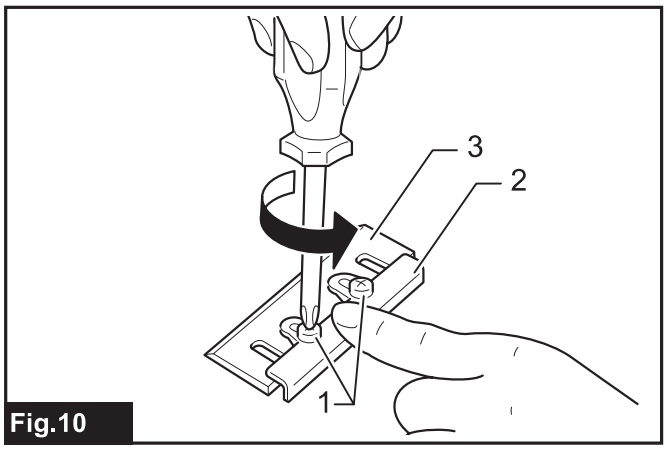


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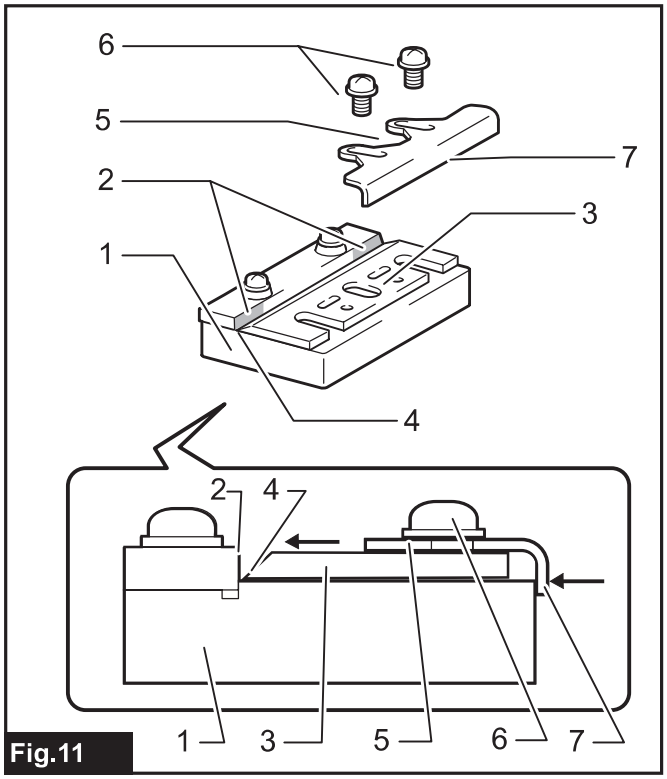


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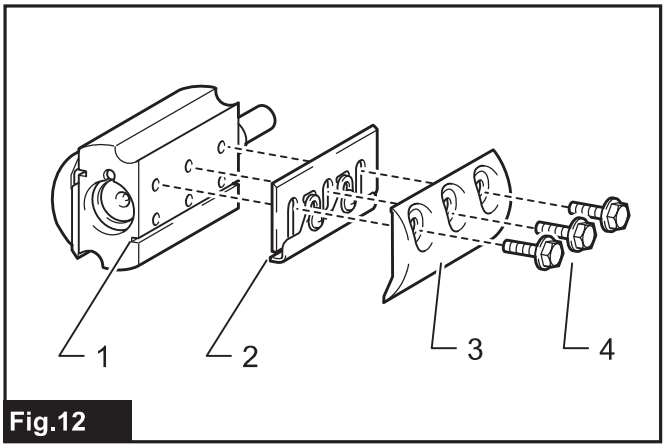


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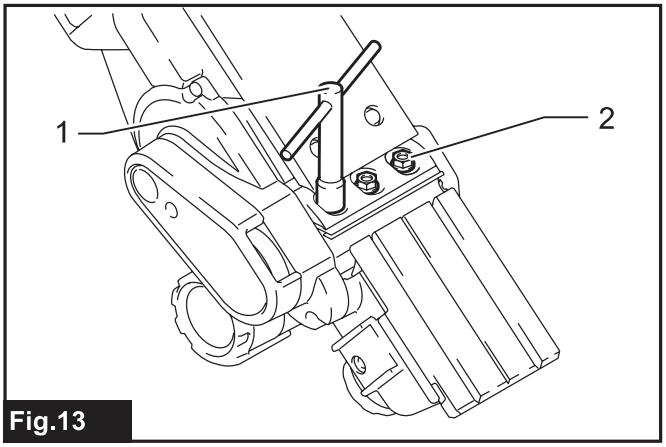


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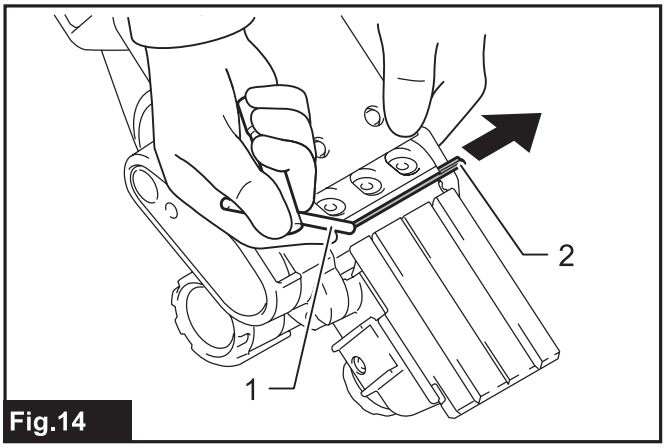


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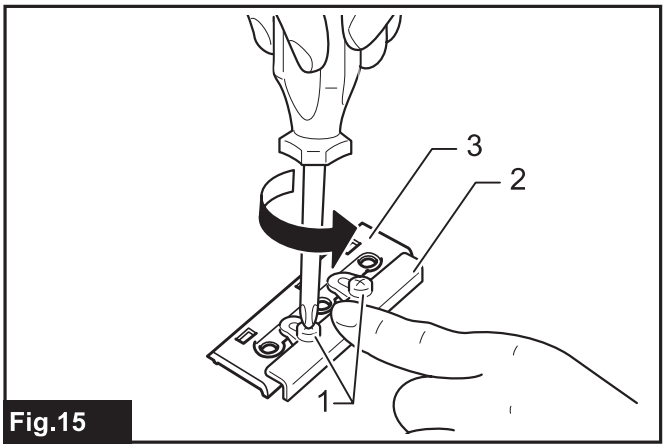


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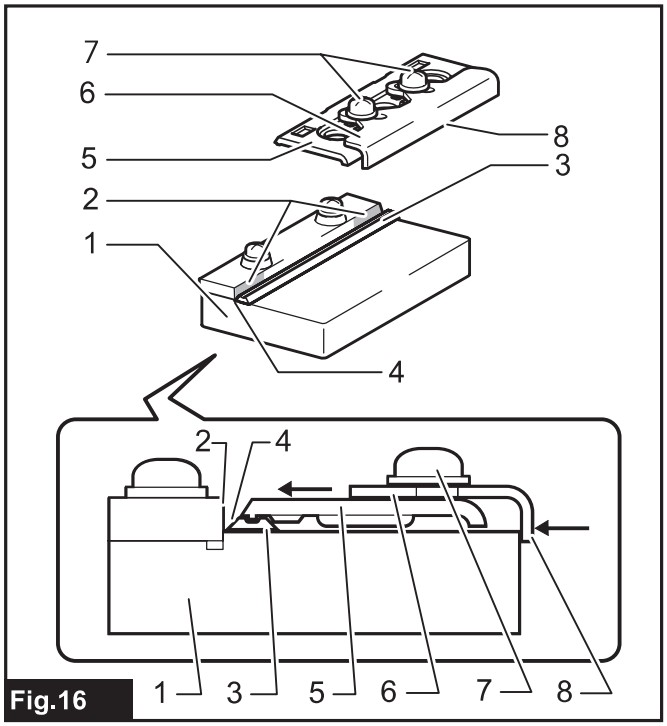


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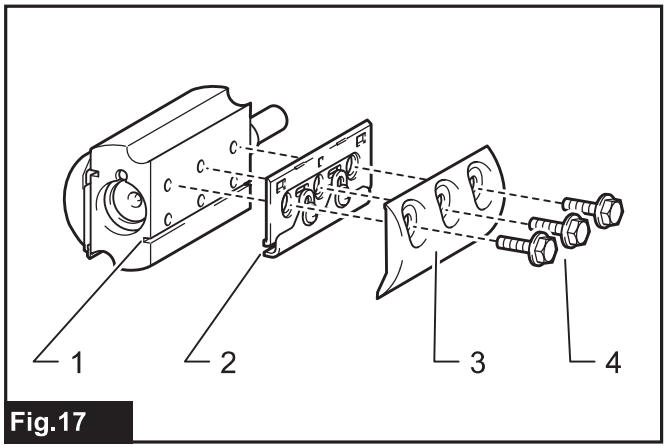


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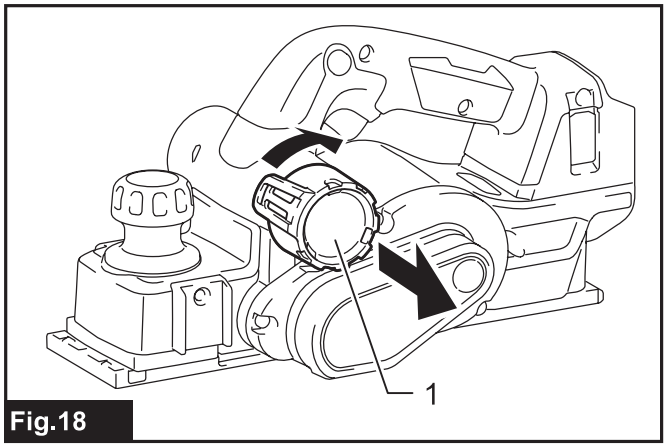


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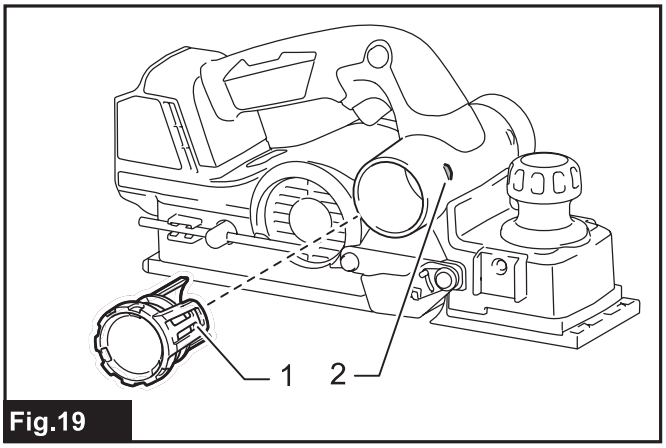


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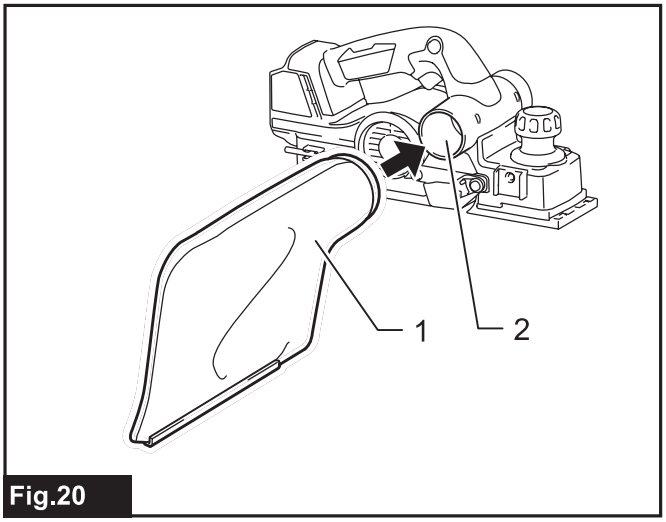


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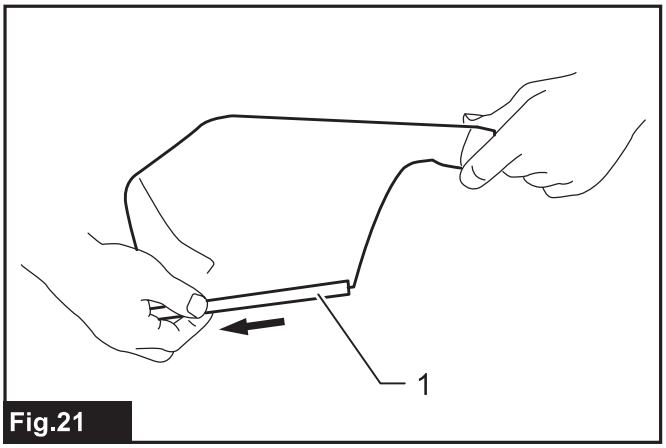


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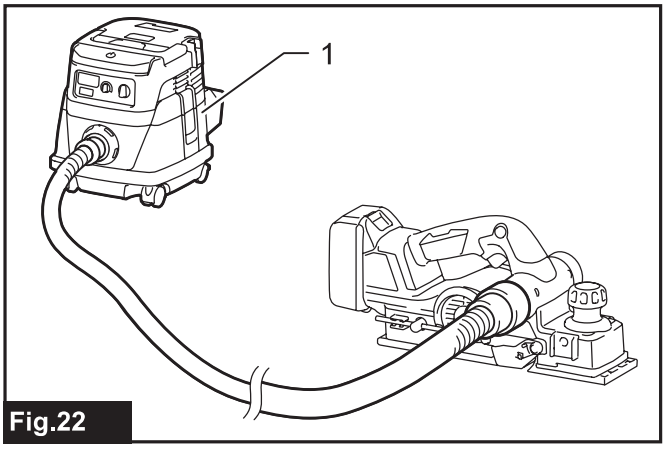


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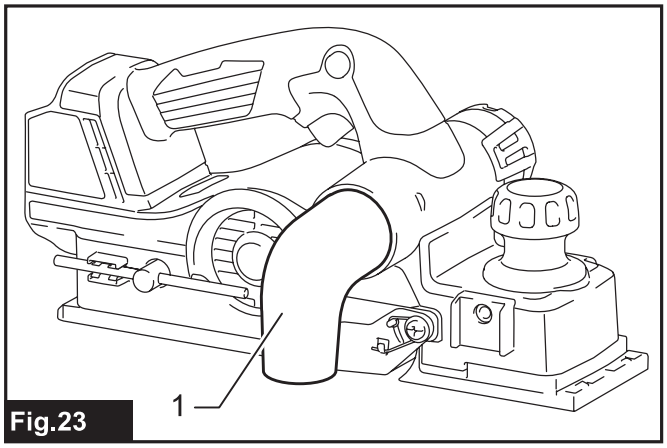


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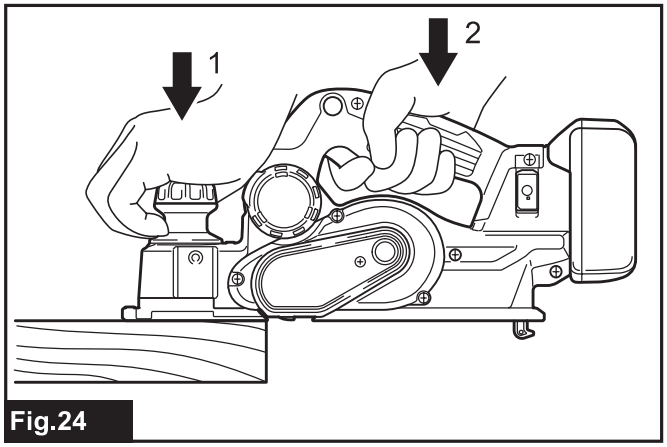
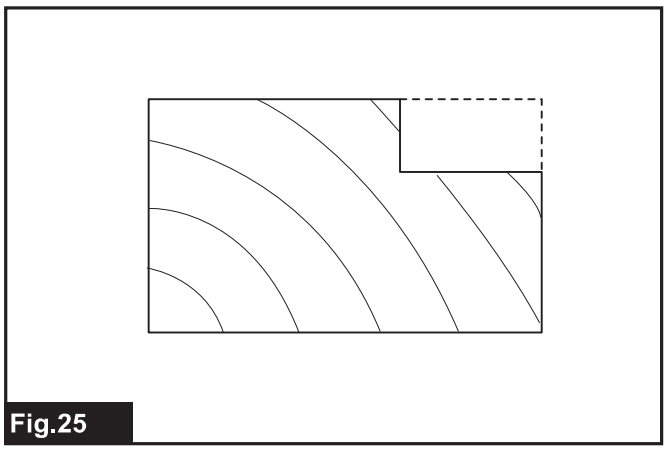


Fig.24


Fig.25

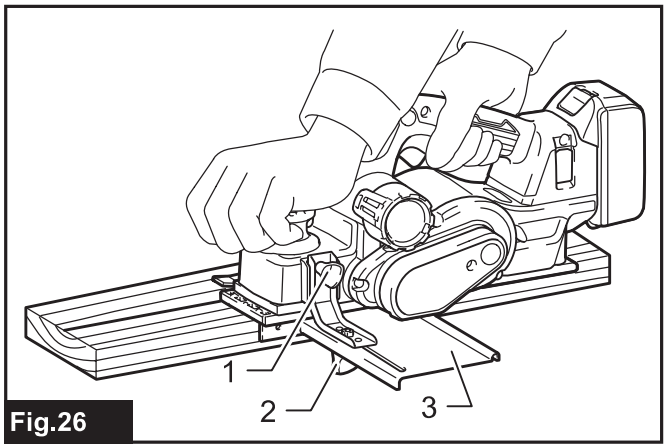


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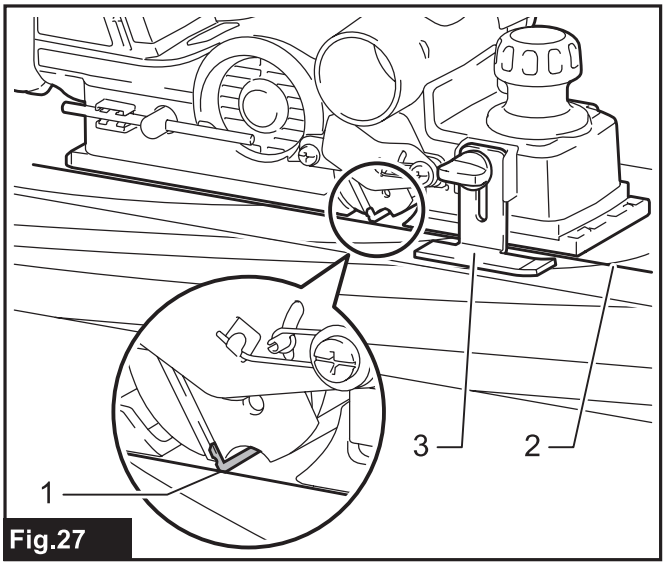


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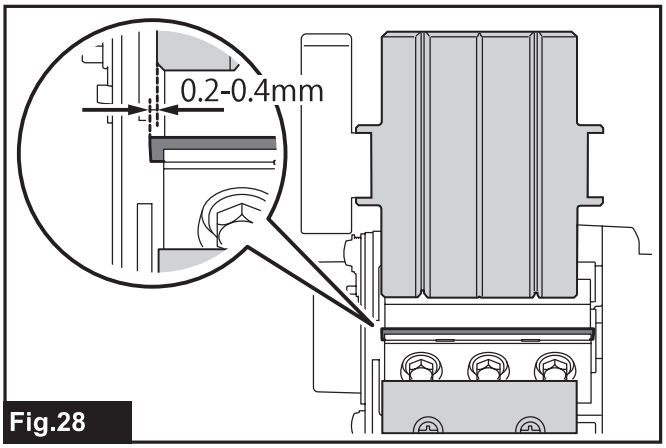
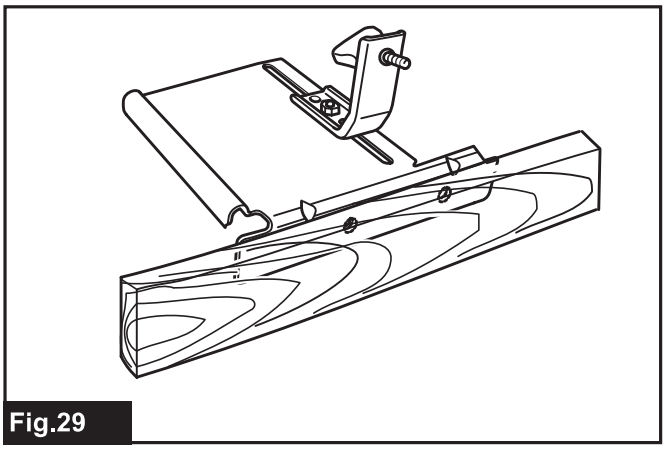
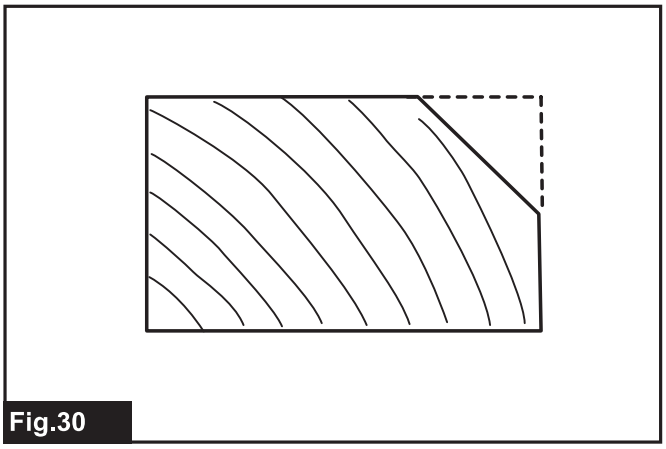


Fig.28


Fig.29


Fig.30

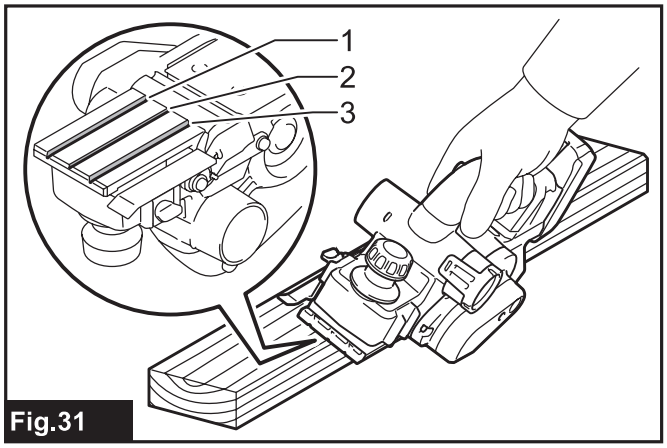


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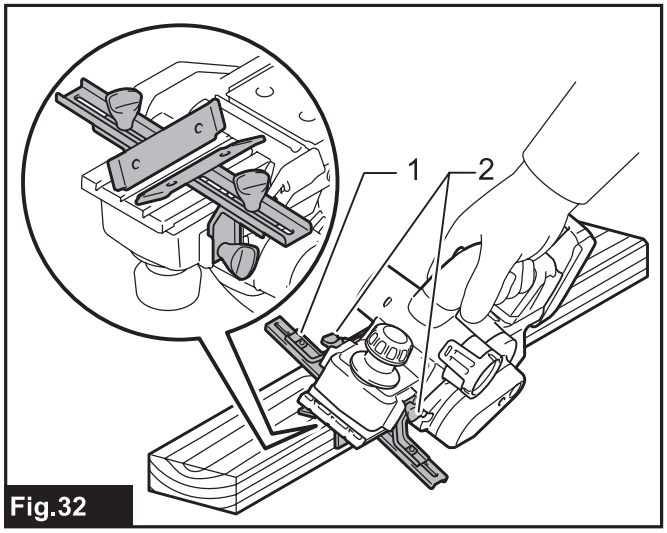


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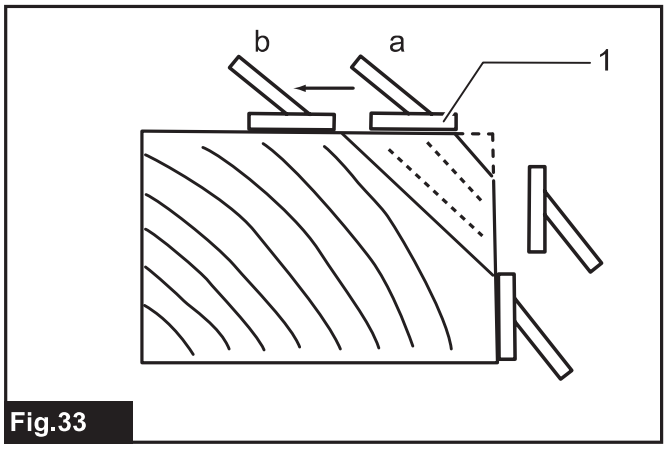
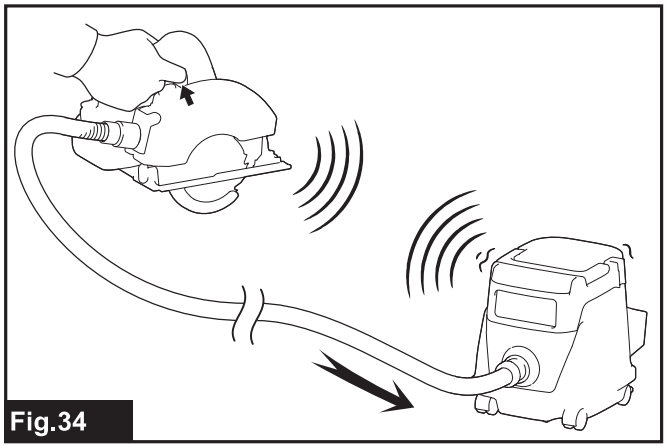


Fig.33


Fig.34

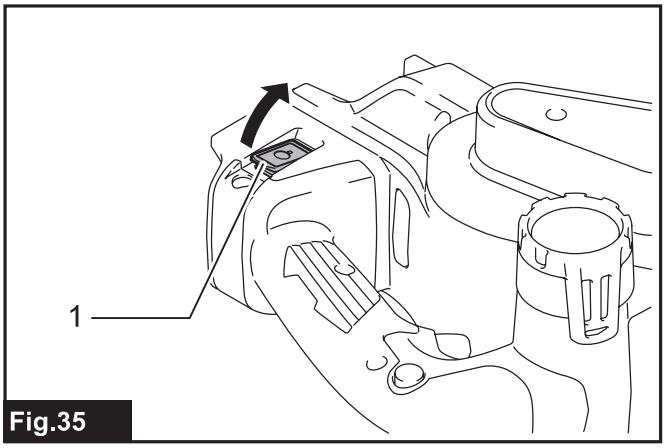


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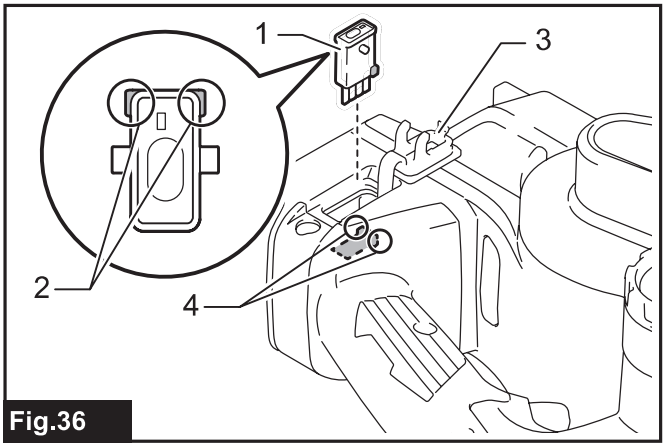


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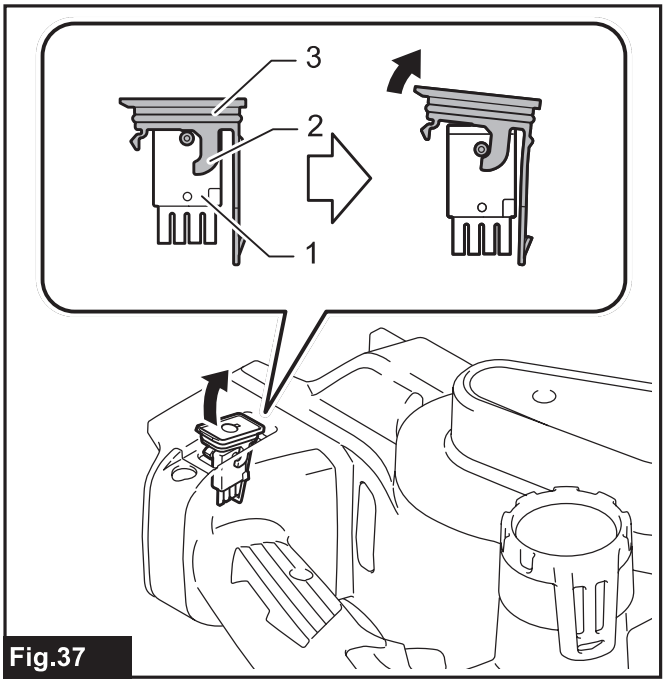


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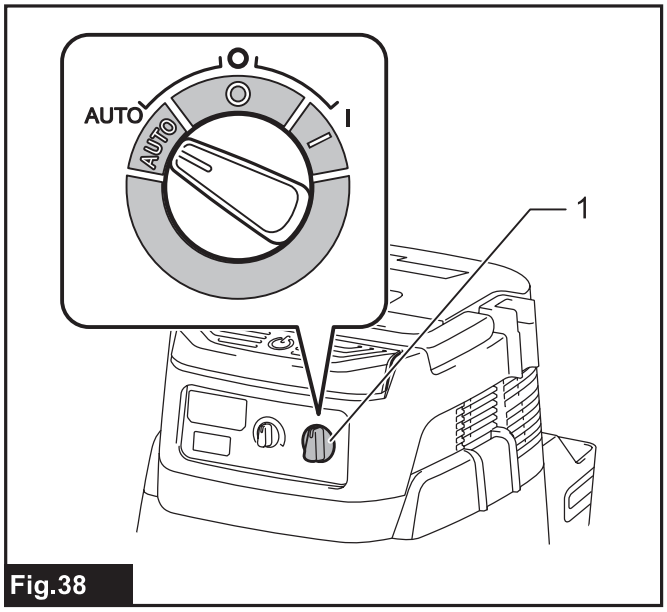


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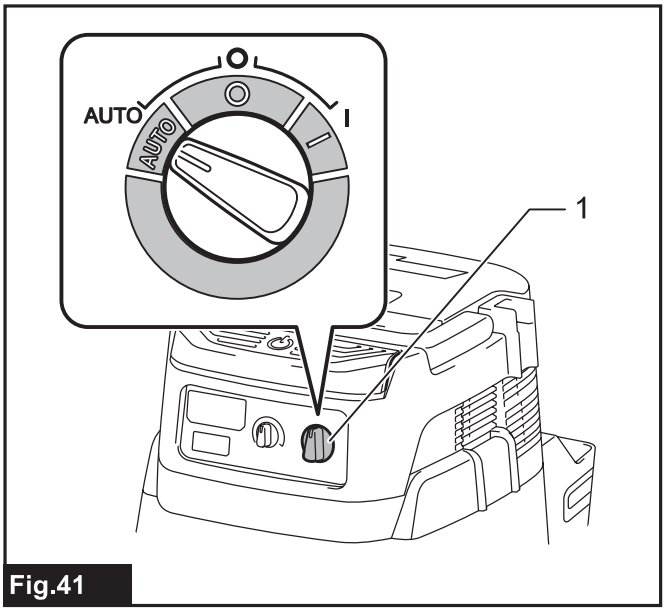


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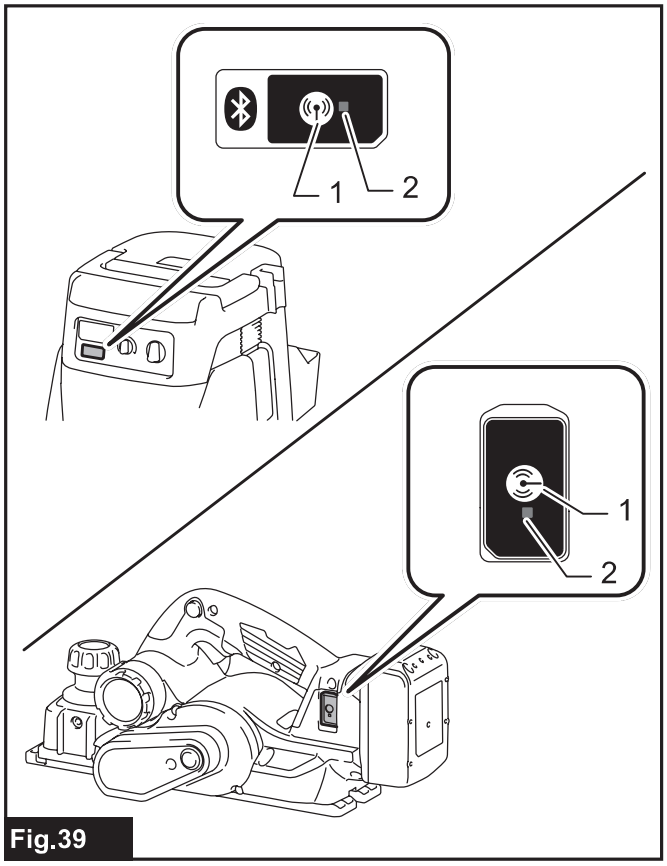


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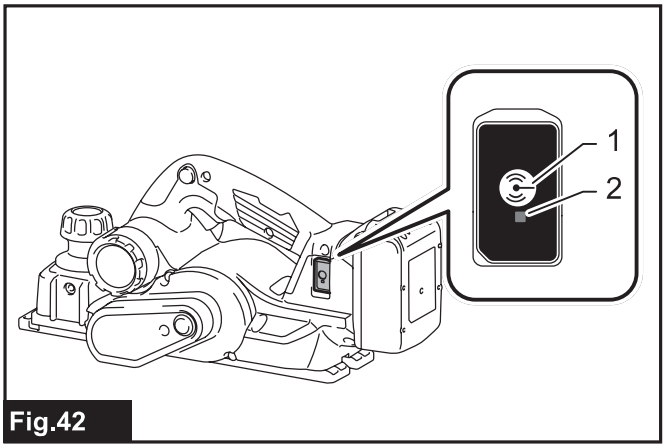


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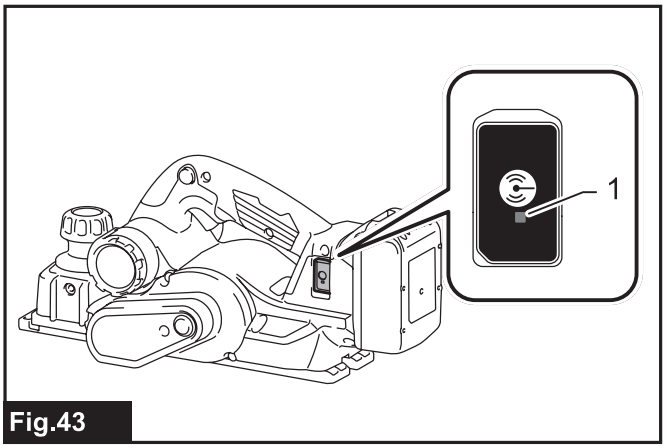
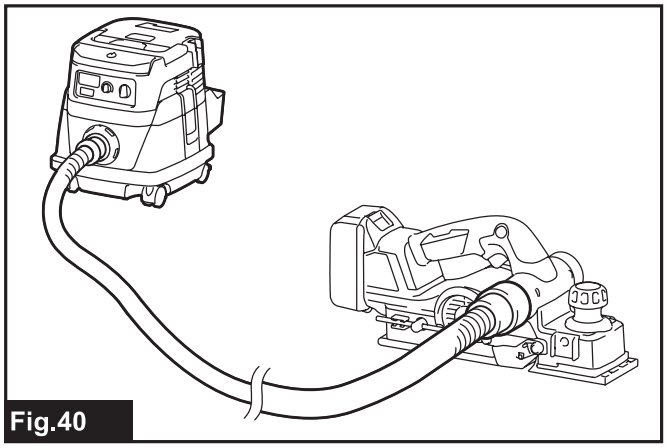


Fig.43


Fig.40

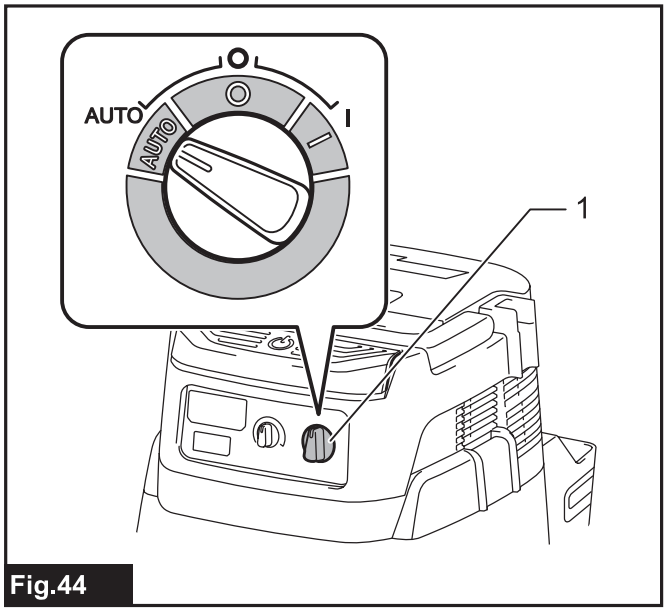


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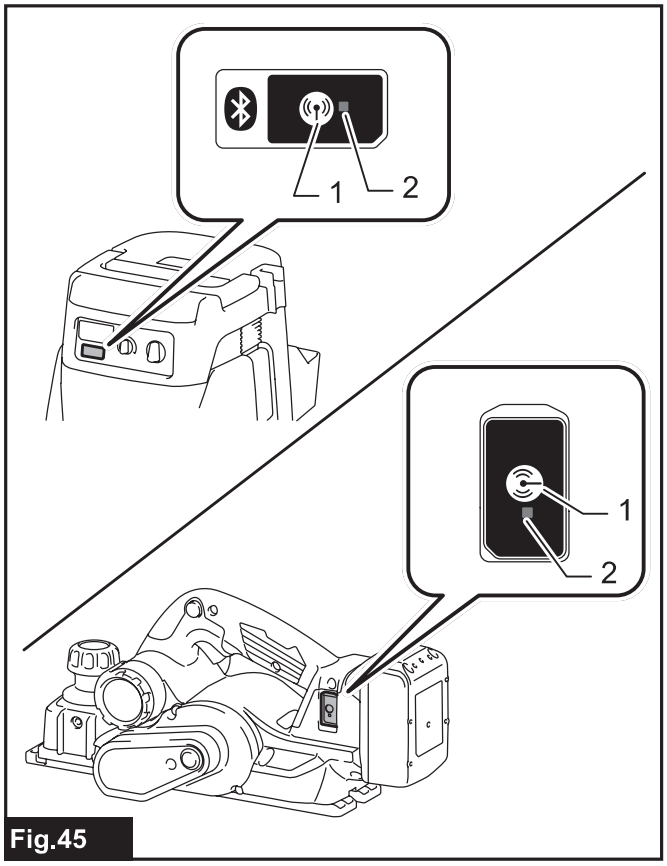


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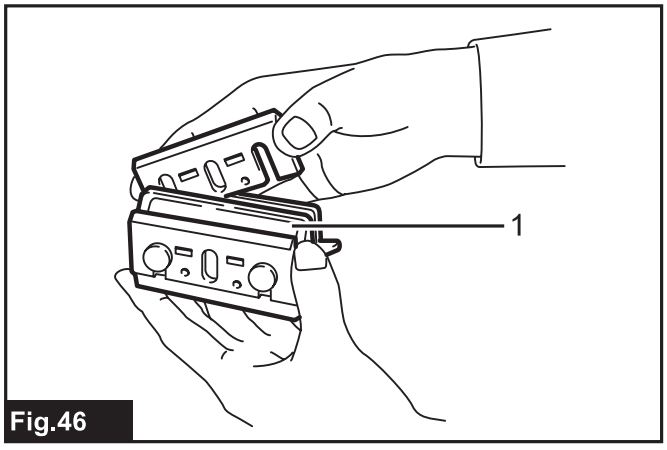


Fig.46

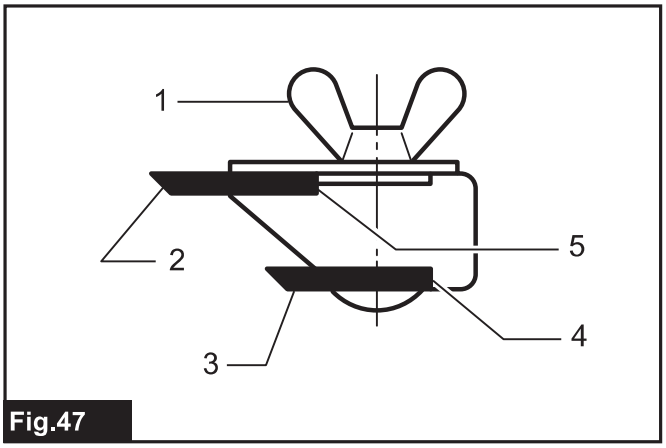
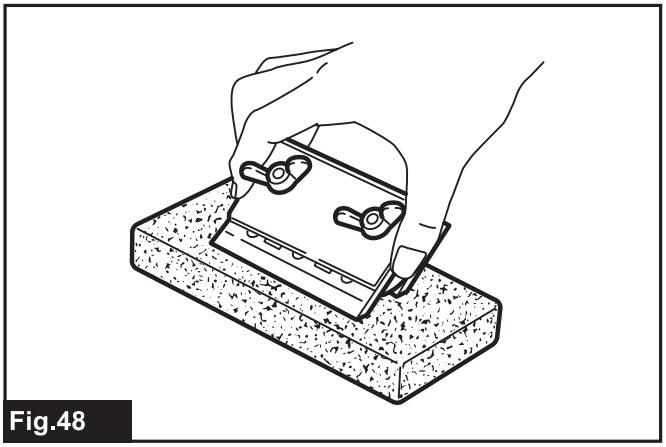


Fig.47


Fig.48

SPECIFICATIONS

Model:	DKP181
Rated voltage	D.C. 18 V
Planing width	82 mm
Planing depth	3 mm
Shiplapping depth	25 mm
No load speed	12,000 min^{-1}
Overall length	366 mm
Net weight	3.3 - 3.6 kg

- Due to our continuing program of research and development, the specifications herein are subject to change without notice.
- Specifications and battery cartridge may differ from country to country.
- The weight may differ depending on the attachment(s), including the battery cartridge. The lightest and heaviest combinations, according to EPTA-Procedure 01/2014, are shown in the table.

Applicable battery cartridge and charger

Battery cartridge	BL1815N / BL1820 / BL1820B / BL1830 / BL1830B / BL1840 / BL1840B / BL1850 / 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 planing wood.

Noise

The typical A-weighted noise level determined according to EN62841-2-14:
Sound pressure level (L_{pA}) : 84 dB(A)
Sound power level (L_{WA}) : 95 dB (A)
Uncertainty (K) : 3 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.**

⚠***WARNING:*** **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.**

⚠***WARNING:*** **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 EN62841-2-14:
Work mode: planing softwood
Vibration emission (a_h) : 5.0 m/s^2
Uncertainty (K) : 2.5 m/s^2

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.

⚠***WARNING:*** **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.**

⚠***WARNING:*** **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 Planer Safety Warnings

1. **Wait for the cutter to stop before setting the tool down.** An exposed rotating cutter may engage the surface leading to possible loss of control and serious injury.
2. **Use clamps or another practical way to secure and support the workpiece to a stable platform.** Holding the workpiece by your hand or against the body leaves it unstable and may lead to loss of control.
3. **Rags, cloth, cord, string and the like should never be left around the work area.**
4. **Avoid cutting nails. Inspect for and remove all nails from the workpiece before operation.**
5. **Use only sharp blades. Handle the blades very carefully.**
6. **Be sure the blade installation bolts are securely tightened before operation.**
7. **Hold the tool firmly with both hands.**
8. **Keep hands away from rotating parts.**
9. **Before using the tool on an actual workpiece, let it run for a while. Watch for vibration or wobbling that could indicate poor installation or a poorly balanced blade.**
10. **Make sure the blade is not contacting the workpiece before the switch is turned on.**
11. **Wait until the blade attains full speed before cutting.**
12. **Always switch off and wait for the blades to come to a complete stop before adjusting depth of cut.**
13. **Never stick your finger into the chip chute. Chute may jam when cutting damp wood. Clean out chips with a stick.**
14. **Do not leave the tool running. Operate the tool only when hand-held.**
15. **When replace the blades or some parts on the drum, make sure to replace the parts on both sides of the drum as a set.** Otherwise, the resulting imbalance will cause vibration and shorten tool life.
16. **Use only Makita blades specified in this manual.**
17. **Always use the correct dust mask/respirator for the material and application you are working with.**
18. **Operate the tool on stable condition.** Operation on unstable condition may cause a damage injury.

SAVE THESE INSTRUCTIONS.

⚠***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.**
2. **Do not disassemble battery cartridge.**
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.**
4. **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 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. **Be careful not to drop or strike battery.**
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.**

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.**
3. **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.**
4. **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.**
7. **Do not operate the wireless unit in places where automated devices are nearby.** If operated, automated devices may develop malfunction or error.
8. **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.
28. **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

⚠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

⚠CAUTION: 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 on the upper side of the button, 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.

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 is operated in a manner that causes it to draw an abnormally high current, the tool automatically stops. 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 is overheated, the tool stops automatically, and the battery indicator blink about 60 seconds. In this situation, let the tool cool down before turning the tool on again.

On	Blinking
	

Overdischarge protection

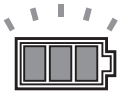
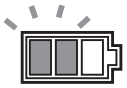
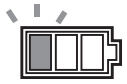
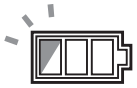
When the battery capacity becomes low, the tool stops automatically. If the product does not operate even when the switches are operated, remove the batteries from the tool and charge the batteries.

Indicating the remaining battery capacity

When you pull the switch trigger, the battery indicator shows the remaining battery capacity.

► **Fig.2: 1.** Battery indicator

The remaining battery capacity is shown as the following table.

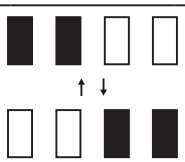
Battery indicator status			Remaining battery capacity
On	Off	Blinking	
			50% to 100%
			20% to 50%
			0% to 20%
			Charge the battery

Indicating the remaining battery capacity

Only for battery cartridges with the indicator

► **Fig.3: 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.

Indicator lamps			Remaining capacity
Lighted	Off	Blinking	
			75% to 100%
			50% to 75%
			25% to 50%
			0% to 25%
			Charge the battery.
			The battery may have malfunctioned.

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

Adjusting depth of cut

⚠*CAUTION:* Be sure the blades stopped completely before adjusting depth of cut.

Depth of cut may be adjusted by simply turning the knob on the front of the tool so that the pointer points the desired depth of cut.
► **Fig.4:** **1.** Pointer **2.** Knob

Switch action

⚠*WARNING:* 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.

⚠*WARNING:* NEVER defeat the lock-off button by taping down or some other means. A switch with a negated lock-off button may result in unintentional operation and serious personal injury.

⚠*WARNING:* NEVER use the tool if it runs when you simply pull the switch trigger without pressing the lock-off button. A switch in need of repair may result in unintentional operation and serious personal injury. Return tool to a Makita service center for proper repairs BEFORE further usage.

To prevent the switch trigger from being accidentally pulled, a lock-off button is provided. To start the tool, depress the lock-off button and pull the switch trigger. Release the switch trigger to stop.
► **Fig.5:** **1.** Switch trigger **2.** Lock-off button

***NOTICE:* Do not pull the switch trigger hard without pressing in the lock-off button.** This can cause switch breakage.

Automatic speed change function

This tool has "high speed mode" and "high torque mode". The tool automatically changes the operation mode depending on the work load. When the work load is low, the tool will run in the "high speed mode" for quicker cutting operation. When the work load is high, the tool will run in the "high torque mode" for powerful cutting operation.
► **Fig.6:** **1.** Mode indicator

The mode indicator lights up in green when the tool is running in "high torque mode".
If the tool is operated with excessive load, the mode indicator will blink in green. The mode indicator stops blinking and then lights up or turns off if you reduce the load on the tool.

Mode indicator status			Operation mode
On	Off	Blinking	
			High speed mode
			High torque mode
			Overload alert

Foot

After a cutting operation, raise the backside of the tool and a foot comes under the level of the rear base. This prevents the planer blades to be damaged.
► **Fig.7:** **1.** Planer blade **2.** Rear base **3.** Foot

ASSEMBLY

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

Box wrench storage

When not in use, store the box wrench as shown in the figure to keep it from being lost.
► **Fig.8:** **1.** Box wrench

Removing or installing planer blades

⚠*CAUTION:* Tighten the blade installation bolts carefully when attaching the blades to the tool. Always check to see they are tightened securely. A loose installation bolt can be dangerous.

⚠*CAUTION:* Handle the blades very carefully. Use gloves or rags to protect your fingers or hands when removing or installing the blades.

⚠*CAUTION:* Use only the Makita wrench provided to remove or install the blades. Failure to do so may result in overtightening or insufficient tightening of the installation bolts. This could cause an injury.

***NOTICE:* To install planer blades, clean out all chips or foreign matter adhering to the drum or the planer blades. Use planer blades of the same dimensions and weight, otherwise drum oscillation/vibration, causing poor planing action, and tool breakdown will result.**

For tool with conventional planer blades

1. To remove the conventional planer blades from the tool, unscrew the installation bolts with the box wrench.
   The drum plate and the conventional planer blade with adjusting plate come off.
   ► **Fig.9:** **1.** Box wrench **2.** Installation bolt **3.** Drum plate **4.** Conventional blade (with adjusting plate)
2. Unscrew and remove the adjusting plate.
   ► **Fig.10:** **1.** Screw **2.** Adjusting plate **3.** Conventional planer blade
3. To install the conventional planer blades, place the conventional planer blade on the blade gauge so that the blade edge is perfectly flush with the inside edge of the blade gauge.

4. Place the adjusting plate on the conventional planer blade, then simply press in the heel of the adjusting plate flush with the backside of the blade gauge.
5. Tighten two screws on the adjusting plate while the adjusting plate being pressed.

► **Fig.11:** **1.** Blade gauge **2.** Inside edge of blade gauge **3.** Conventional planer blade **4.** Blade edge (of conventional planer blade) **5.** Adjusting plate **6.** Screw **7.** Heel

6. Clean out all chips or foreign matter adhering to the drum and the conventional planer blade.
7. Slip the heel of the adjusting plate into the drum groove, then fit the drum plate on it.

► **Fig.12:** **1.** Drum groove **2.** Heel **3.** Drum plate **4.** Installation bolt

8. Tighten all the installation bolts evenly and alternately with the box wrench.
9. Repeat the above procedures for the other conventional planer blade.

For tool with mini planer blades

1. To remove the mini planer blades from the tool, loosen the installation bolts one turn with the box wrench.

► **Fig.13:** **1.** Box wrench **2.** Installation bolt

2. Slide and remove the mini planer blade from the belt side of the tool.
   Using the haft of the box wrench makes it easier and safety.

► **Fig.14:** **1.** Haft of the box wrench **2.** Mini planer blade

3. To install the mini planer blades, clean out all chips or foreign matter adhering to the drum and the mini planer blade.
4. Slide the mini planer blade from opposite side of the belt of the tool.
5. Tighten all the installation bolts evenly and alternately with the box wrench.
6. Repeat the above procedures for the other mini planer blade.

To calibrate the relation between the set plate and the adjusting plate, perform the following procedure.

1. Loosen the installation bolts one turn with the box wrench, remove the mini planer blades from the tool first, and then remove the installation bolts. The drum plate and the set plate with adjusting plate come off.
2. Loosen the screws one turn on the adjusting plate.

► **Fig.15:** **1.** Screw **2.** Adjusting plate **3.** Set plate

3. Clean out all chips or foreign matter adhering to the set plate with adjusting plate and the mini planer blade.
4. Place the mini planer blade on the blade gauge so that the blade edge is perfectly flush with the inside edge of the blade gauge.
5. Place the set plate with the adjusting plate, so that the locating lugs of the set plate align on the rest of the mini planer blade.
6. Press in the heel of the adjusting plate flush with the backside of the blade gauge.
7. Tighten two screws on the adjusting plate while the adjusting plate being pressed.

► **Fig.16:** **1.** Blade gauge **2.** Inside edge of blade gauge **3.** Mini planer blade **4.** Blade edge (of mini planer blade) **5.** Set plate **6.** Adjusting plate **7.** Screw **8.** Heel

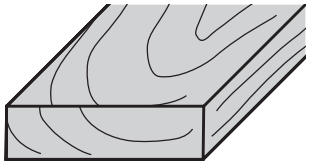
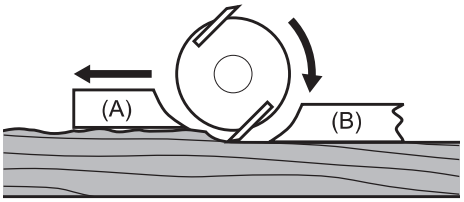
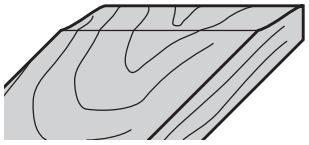
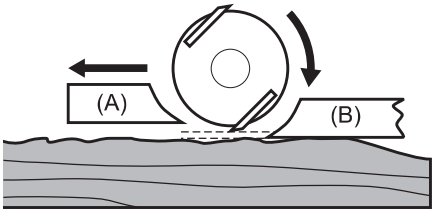
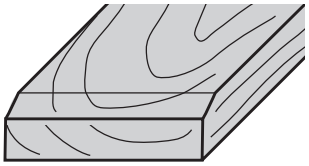
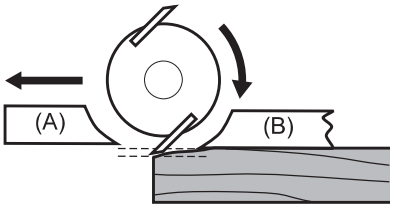
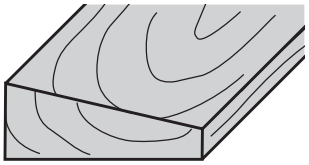
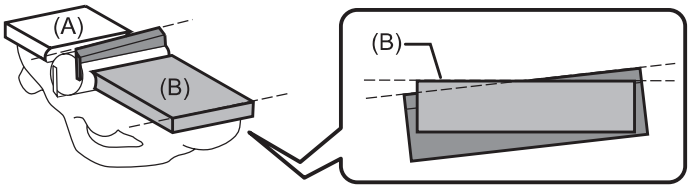
8. Slip the heel of the adjusting plate into the groove of the drum.

► **Fig.17:** **1.** Drum groove **2.** Heel **3.** Drum plate **4.** Installation bolt

9. Screw all the installation bolts with the box wrench.
   Then install the mini planer blade.

For the correct planer blade setting

Your planing surface will end up rough and uneven, unless the blade is set properly and securely.
The blade must be mounted so that the cutting edge is absolutely level, that is, parallel to the surface of the rear base.
Refer to some examples below for proper and improper settings.

Planing surface	Blade setting	Cause
Correct setting 		Although this side view cannot show it, the edge of the blades run perfectly parallel to rear base surface
Gouging at start 		Both blade edges fails to protrude enough in relation to rear base line.
Gouging at end 		One or both blade edges protrude too far in relation to rear base line.
Aslope in surface 		One or both blades fails to have edge parallel to rear base line.
(A): Front base (Movable shoe) (B): Rear base (Stationary shoe)		

Change of chip discharge direction

Chip discharge direction can be changed to the right or left. To change the direction, pull out the stopper while turning it slightly backward and fit in it in one of two openings on the opposite side of chip discharge so that the recessed part fits to protrusion.

► **Fig.18: 1.** Stopper

► **Fig.19: 1.** Recessed part **2.** Protrusion

Dust bag

Optional accessory

Attach the dust bag onto the chip discharge opening. The chip discharge opening is tapered. When attaching the dust bag, push it onto the chip discharge opening firmly as far as it will go to prevent it from coming off during operation.

► **Fig.20: 1.** Dust bag **2.** Chip discharge opening

When the dust bag is about half full, remove the dust bag from the tool and pull the fastener out. Empty the dust bag. Tap the dust bag lightly to remove particles adhering inside, which might hamper further collection.

► **Fig.21: 1.** Fastener

NOTE: If you connect a Makita vacuum cleaner to this tool, more efficient and cleaner operations can be performed.

Connecting a vacuum cleaner

When you wish to perform clean planing operation, connect a Makita vacuum cleaner to your tool. Connect a hose of the vacuum cleaner to the chip discharge opening as shown in the figures.

► **Fig.22: 1.** Vacuum cleaner

Elbow

Optional accessory

Use of elbow allows change of chip discharge direction to perform cleaner work.
Insert the elbow into the chip discharge opening. To remove it, just pull it out.

► **Fig.23: 1.** Elbow

OPERATION

Hold the tool firmly with one hand on the knob and the other hand on the switch handle when operating the tool.

Planing operation

First, rest the tool front base flat upon the workpiece surface without the blades making any contact. Switch on and wait until the blades attain full speed. Then move the tool gently forward. Apply pressure on the front of tool at the start of planing, and at the back at the end of planing. Planing will be easier if you incline the workpiece in stationary fashion, so that you can plane somewhat downhill.
The speed and depth of cut determine the kind of finish. The tool keeps cutting at a speed that will not result in jamming by chips. For rough cutting, the depth of cut can be increased, while for a good finish you should reduce the depth of cut and advance the tool more slowly.
► **Fig.24:** **1.** Start **2.** End

Shiplapping (Rabbeting)

► **Fig.25**

To make a stepped cut as shown in the figure, use the edge fence (guide rule).
Install the edge fence on the tool. Secure it with the washer and thumb screw (A). Loosen the thumb screw (B) and adjust the edge fence until it comes in contact with the side of the workpiece. Then tighten the thumb screw (B) securely.
► **Fig.26:** **1.** Screw (A) **2.** Screw (B) **3.** Edge fence

Draw a cutting line on the workpiece. Align the blade edge with the cutting line.
Adjust the shiplapping depth using a depth guide. When planing, move the tool with the edge fence flush with the side of the workpiece. Otherwise, uneven planing may result.
► **Fig.27:** **1.** Blade edge **2.** Cutting line **3.** Depth guide

NOTICE: The blade edge should be made to protrude outside slightly (0.2 mm - 0.4 mm) for shiplapping.

► **Fig.28**

You can extend the length of the fence by attaching an extra piece of wood. Convenient holes are provided in the fence for this purpose.
► **Fig.29**

Chamfering

► **Fig.30**

To make a chamfering cut as shown in the figure, align one of three "V" grooves in the front base with the edge of the workpiece and plane it.
► **Fig.31:** **1.** V groove (medium amount of chamfering)
2. V groove (small amount of chamfering)
3. V groove (great amount of chamfering)

Use of chamfering rule (optional accessory) assures more tool stability when chamfering.
To install the chamfering rule, remove two screws on both sides of the front of the tool.
Then install the chamfering rule on the front base of the tool and secure it the screws as shown in the figure.
► **Fig.32:** **1.** Chamfering rule **2.** Screw

When doing a great amount of chamfering, place an edge of chamfering rule so that it contacts workpiece and make many passes of planing as shown in the figure.
► **Fig.33:** **1.** Edge of chamfering rule

WIRELESS ACTIVATION FUNCTION

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.34**

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

⚠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.35:** **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.36:** **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.37:** **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.38:** **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.39:** **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.40**

3. Set the stand-by switch on the vacuum cleaner to "AUTO".
► **Fig.41:** **1.** Stand-by switch

4. Push the wireless activation button on the tool briefly. The wireless activation lamp will blink in blue.
► **Fig.42:** **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 don't pull the switch trigger because another user is using the wireless activation function.

Description of the wireless activation lamp status

► **Fig.43:** **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	Blue		◪	2 hours	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 registration	Green		◪	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 activation function is starting up.
	Off	-		-	The wireless activation of the vacuum cleaner is stopped.

Cancelling tool registration for the vacuum cleaner

Perform the following procedure when cancelling the tool registration for the vacuum cleaner.

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

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

► **Fig.44:** **1.** Stand-by switch

3. Press the wireless activation button on the vacuum 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.45:** **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 cleaner.
Cannot finish tool registration / cancelling 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 cleaner.
	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. The 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 procedures again.
	The tool registration procedures for the tool or vacuum cleaner have not finished.	Perform the tool registration procedures for both the tool and the vacuum cleaner at the same timing.
	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.
	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 cleaner, 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 cleaner.
	The tool and vacuum cleaner are away from each other (out of the transmission range).	Get the tool and vacuum cleaner closer each other. The 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

⚠*CAUTION:* 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.

Chip discharge opening cleaning

Clean the chip discharge opening regularly.
Use a compressed air to clean the clogged chip discharge opening.

Sharpening the blades

For conventional planer blades only

Always keep your blades sharp for the best performance possible. Use the sharpening holder to remove nicks and produce a fine edge.
► **Fig.46:** **1.** Sharpening holder

First, loosen the two wing nuts on the holder and insert the blades (A) and (B), so that they contact the sides (C) and (D). Then tighten the wing nuts.
► **Fig.47:** **1.** Wing nut **2.** Blade (A) **3.** Blade (B) **4.** Side (D) **5.** Side (C)

Immerse the dressing stone in water for 2 or 3 minutes before sharpening. Hold the holder so that the both blades contact the dressing stone for simultaneous sharpening at the same angle.
► **Fig.48**

OPTIONAL ACCESSORIES

⚠*CAUTION:* 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.

- High-speed steel Planer blade
- Tungsten-carbide Planer blade (For longer blade life)
- Mini planer blade
- Sharpening holder assembly
- Blade gauge
- Set plate set
- Edge fence (Guide rule)
- Dressing stone
- Dust bag assembly
- Elbow
- Chamfering rule assembly
- 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.

SPECIFIKATIONER

Modell:	DKP181
Märkspänning	18 V likström
Hyvelbredd	82 mm
Hyveldjup	3 mm
Falsningsdjup	25 mm
Hastighet utan belastning	12 000 min^{-1}
Total längd	366 mm
Nettovikt	3,3 - 3,6 kg

- På grund av vårt pågående program för forskning och utveckling kan dessa specifikationer ändras utan föregående meddelande.
- Specifikationer och batterikassett kan variera mellan olika länder.
- Vikten kan variera beroende på tillbehören, inklusive batterikassett. Den lättaste och den tyngsta kombinationen enligt EPTA-procedur 01/2014 visas i tabellen.

Tillgänglig batterikassett och laddare

Batterikassett	BL1815N / BL1820 / BL1820B / BL1830 / BL1830B / BL1840 / BL1840B / BL1850 / BL1850B / BL1860B
Laddare	DC18RC / DC18RD / DC18RE / DC18SD / DC18SE / DC18SF / DC18SH

- Vissa av batterikassetterna och laddarna på listan ovan kanske inte finns tillgängliga i din region.

⚠ ***VARNING:*** **Använd endast batterikassetter och laddare från listan ovan.** Användning av andra batterikassetter och laddare kan orsaka personskada och/eller brand.

Avsedd användning

Verktyget är avsett för hyvling av trä.

Buller

Den normala bullernivån för A-belastning är bestämd enligt EN62841-2-14:
Ljudtrycksnivå (L_{pA}) : 84 dB (A)
Ljudeffektnivå (L_{WA}) : 95 dB (A)
Mättolerans (K): 3 dB (A)

OBS: Det deklarerade bullervärdet har uppmätts i enlighet med standardtestmetoden och kan användas för jämförandet av en maskin med en annan.

OBS: Det deklarerade bulleremissionsvärdet kan också användas i en preliminär bedömning av exponering för vibration.

⚠ ***VARNING:*** **Använd hörselskydd.**

⚠ ***VARNING:*** **Bulleremissionen under faktisk användning av maskinen kan skilja sig från det deklarerade värdet, beroende på hur maskinen används och särskilt vilken typ av arbetsstycke som behandlas.**

⚠ ***VARNING:*** **Var noga med att identifiera säkerhetsåtgärder för att skydda användaren, vilka är grundade på en uppskattning av graden av exponering för vibrationer under de faktiska användningsförhållandena, (ta, förutom avtryckartiden, med alla delar av användarcykeln i beräkningen, som till exempel tiden då maskinen är avstängd och när den går på tomgång).**

Vibration

Det totala vibrationsvärdet (treaxlad vektorsumma) bestämt enligt EN62841-2-14:
Arbetsläge: ytslipning
Vibrationsemission (a_h) : 5,0 m/s^2
Mättolerans (K): 2,5 m/s^2

OBS: Det deklarerade totala vibrationsvärdet har uppmätts i enlighet med standardtestmetoden och kan användas för jämförandet av en maskin med en annan.

OBS: Det deklarerade totala vibrationsvärdet kan också användas i en preliminär bedömning av exponering för vibration.

⚠ ***VARNING:*** **Vibrationsemissionen under faktisk användning av maskinen kan skilja sig från det deklarerade värdet, beroende på hur maskinen används och särskilt vilken typ av arbetsstycke som behandlas.**

⚠ ***VARNING:*** **Var noga med att identifiera säkerhetsåtgärder för att skydda användaren, vilka är grundade på en uppskattning av graden av exponering för vibrationer under de faktiska användningsförhållandena, (ta, förutom avtryckartiden, med alla delar av användarcykeln i beräkningen, som till exempel tiden då maskinen är avstängd och när den går på tomgång).**