

Makita Cordless Planer DKP180

Cordless Planer for efficient cutting of wood into the desired thickness, whilst creating perfectly parallel surfaces.
Planes up to 82mm wide and 2mm deep in a single pass.

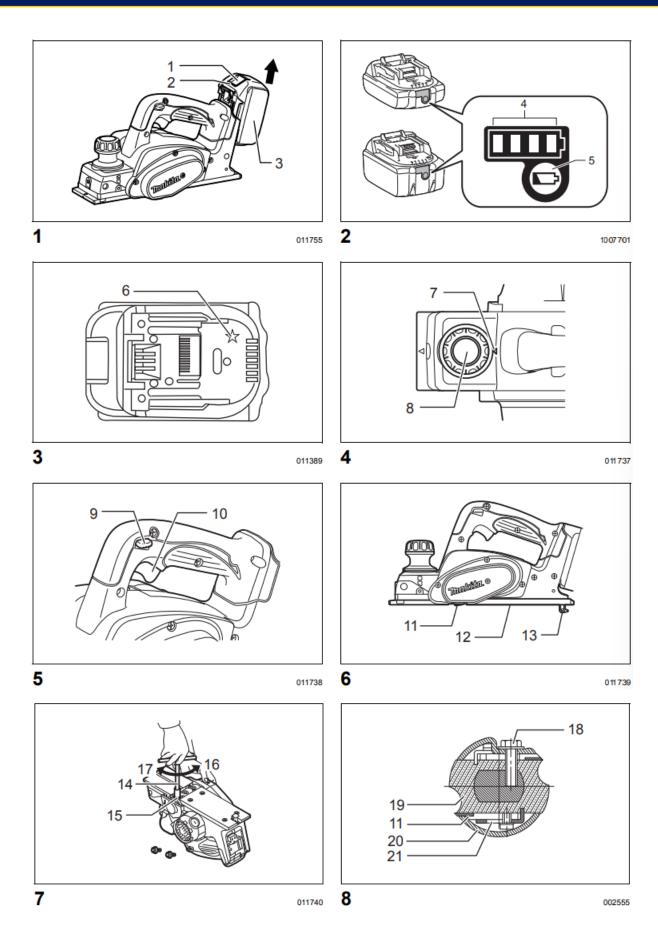


User Benefits

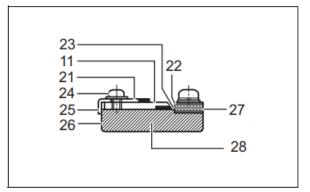
- Easy depth adjustment with the thumbwheel
- Rubber coating on the handle ensures a firm working grip
- Electric brake for maximum productivity and increased operator safety
- Battery protection system automatically shuts off power when the battery is low

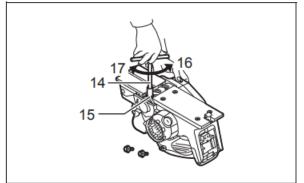
Machine Specifications					
Planing width	82 mm				
Planing depth	2 mm				
Shiplapping depth	9 mm				
No load speed (min-1)	15,000 min-1				
Overall Length	333 mm				
Net Weight	3.2 – 3.5 kg				
Rated Voltage	D.V. 18V				



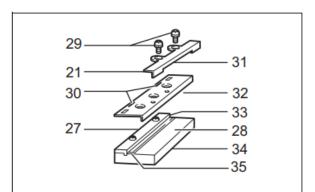


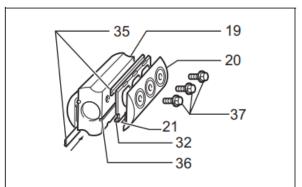




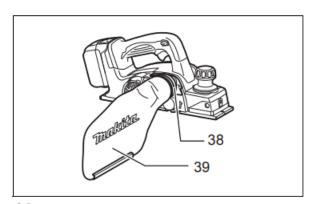


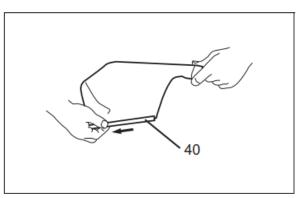
9 002556 10 011740



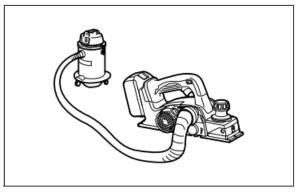


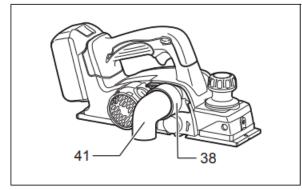
11 002565 12 002566





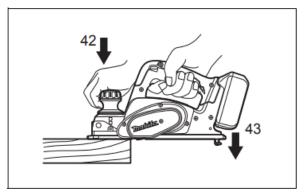
13 011741 14 007802

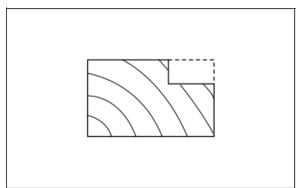




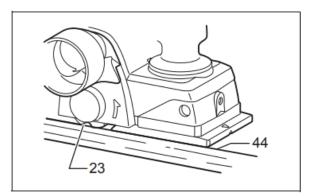
15 011757 16 011758

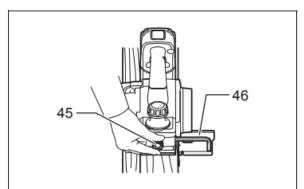




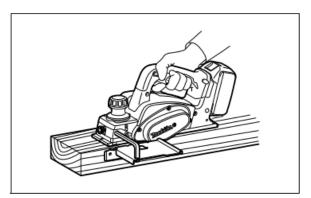


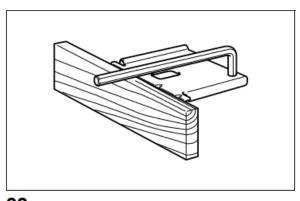
17 011759 18 002580



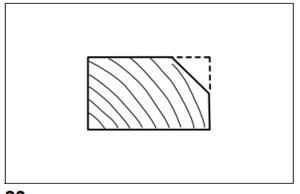


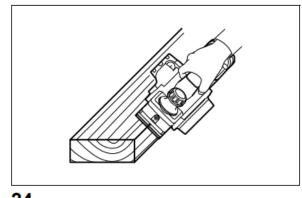
19 011752 20 011760





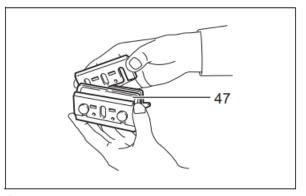
21 011761 22 010183

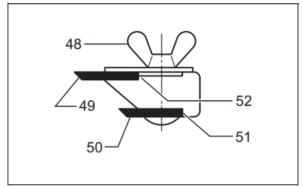




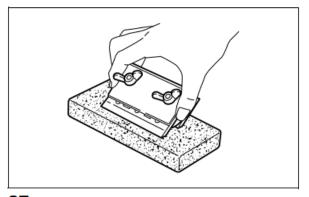
23 003634 24 011748

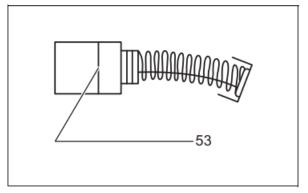


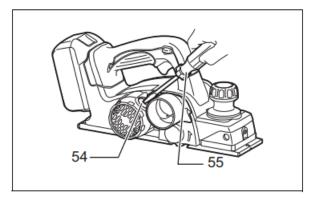














ENGLISH (Original instructions)

Explanation of general view

1.	Button	20.	Drum cover	39.	Dust bag
2.	Red indicator	21.	Adjusting plate	40.	Fastener
3.	Battery cartridge	22.	Inside edge of gauge plate	41.	Elbow
4.	Indicator lamps	23.	Blade edge	42.	Start
5.	Check button	24.	Screws	43.	End
6.	Star mark	25.	Heel	44.	Cutting line
7.	Pointer	26.	Back side of gauge base	45.	Screw
8.	Knob	27.	Gauge plate	46.	Edge fence (optional accessory)
9.	Lock-off lever	28.	Gauge base	47.	Sharpening holder
10.	Switch trigger	29.	Pan head screw	48.	Wing nut
11.	Planer blade	30.	Planer blade locating lugs	49.	Blade (A)
12.	Rear base	31.	Heel of adjusting plate	50.	Blade (B)
13.	Foot	32.	Set plate	51.	Side (D)
14.	Socket wrench	33.	Inside flank of gauge plate	52.	Side (C)
15.	Bolt	34.	Back side of gauge base	53.	Limit mark
16.	Loosen	35.	Mini planer blade	54.	Brush holder cap
17.	Tighten	36.	Groove	55.	Screwdriver
18.	Bolts	37.	Hex. flange head bolts		
19.	Drum	38.	Nozzle		

- 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	D.C.14.4 V Model	BL1415N/BL1430/BL1430B/BL1440/BL1450/BL1460B
	D.C.18 V Model	BL1815N/BL1820/BL1820B/BL1830/BL1830B/BL1840/ BL1840B/BL1850/BL1850B/BL1860B
Charger		DC18RC/DC18RD/DC18RE/DC18SD/DC18SE/DC18SF

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.

ENE001-1

power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

General power tool safety warnings

GEA010-2

MARNING: Read all safety warnings, instructions, illustrations and specifications provided with this



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 GEB168-1

- 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.
- 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.
- Rags, cloth, cord, string and the like should never be left around the work area.
- Avoid cutting nails. Inspect for and remove all nails from the workpiece before operation.
- Use only sharp blades. Handle the blades very carefully.
- 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.
- 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.
- 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.
- Always switch off and wait for the blades to come to a complete stop before any adjusting.
- Never stick your finger into the chip chute. Chute may jam when cutting damp wood. Clean out chips with a stick.
- Do not leave the tool running. Operate the tool only when hand-held.
- Always change both blades or covers on the drum, otherwise the resulting imbalance will cause vibration and shorten tool life.
- 16. Use only Makita blades specified in this manual.
- Always use the correct dust mask/respirator for the material and application you are working with.

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

ENC007-12

- 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.
- 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:
 - 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.

- Do not store the tool and battery cartridge in locations where the temperature may reach or exceed 50°C (122°F).
- 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.
- 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.

- 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.

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

- Charge the battery cartridge before completely discharged.
 - Always stop tool operation and charge the battery cartridge when you notice less tool power.
- 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.
- Charge the battery cartridge if you do not use it for a long period (more than six months).

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 (Fig. 1)

- Always switch off the tool before installing or removing of the 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. Always insert it all the way until it locks in place with a little click. If you can see the red indicator

Indicating the remaining battery capacity

Only for battery cartridges with the indicator (Fig. 2)
Press the check button on the battery cartridge to indicate
the remaining battery capacity. The indicator lamps light
up for a few seconds.

lı lı			
Lighted	Off	Blinking	Remaining capacity
	Ш		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.

Battery protection system (Battery cartridge with a star mark) (Fig. 3)

The battery cartridge with a star mark is equipped with the protection system, which automatically cuts off the output power for its long service life.

The tool stops during operation when the tool and/or battery are placed under the following situation. This is caused by the activation of protection system and does not show the tool trouble.

- When the tool is overloaded:
 - At this time, release the switch trigger, remove the battery cartridge and remove causes of overload and then pull the switch trigger again to restart.
- When battery cells get hot:
 If any operation of the switch trigger, the motor will remain stopped. At this time, stop use of the tool and cool or charge the battery cartridge after removing it from the tool.
- When the remaining battery capacity gets low:
 If any operation of the switch trigger, the motor will remain stopped. At this time, remove the battery cartridge from the tool and charge it.

Adjusting depth of cut (Fig. 4)

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.

Switch action (Fig. 5)

⚠ 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
- Do not pull the switch trigger hard without pressing the lock-off lever. This can cause switch breakage.

MARNING:

- For your safety, this tool is equipped with lock-off lever which prevents the tool from unintended starting.
 NEVER use the tool if it runs when you simply pull the switch trigger without pressing the lock-off lever. Return tool a MAKITA service center for proper repairs BEFORE further usage.
- NEVER tape down or defeat purpose and function of lock-off lever.

Foot (Fig. 6)

After a cutting operation, raise the back side of the tool and a foot comes under the level of the rear base. This prevents the tool blades to be damaged.





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.

Removing or installing planer blades

A CAUTION:

- Tighten the blade installation bolts carefully when attaching the blades to the tool. A loose installation bolt can be dangerous. Always check to see they are tightened securely.
- Handle the blades very carefully. Use gloves or rags to protect your fingers or hands when removing or installing the blades.
- 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.

For tool with conventional planer blades (Fig. 7 - 9)

To remove the blades on the drum, unscrew the installation bolts with the socket wrench. The drum cover comes off together with the blades.

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

Place the blade on the gauge base so that the blade edge is perfectly flush with the inside edge of the gauge plate. Place the adjusting plate on the blade, then simply press in the heel of the adjusting plate flush with the back side of the gauge base and tighten two screws on the adjusting plate. Now slip the heel of the adjusting plate into the drum groove, then fit the drum cover on it. Tighten all the installation bolts evenly and alternately with the socket wrench.

For tool with mini planer blades (Fig. 10)

- Remove the existing blade, if the tool has been in use, carefully clean the drum surfaces and the drum cover.
 To remove the blades on the drum, unscrew the three installation bolts with the socket wrench. The drum cover comes off together with the blades. (Fig. 11)
- To install the blades, loosely attach the adjusting plate to the set plate with the pan head screws and set the mini planer blade on the gauge base so that the cutting edge of the blade is perfectly flush with the inside flank of the gauge plate.
- Set the adjusting plate/set plate on the gauge base so that the planer blade locating lugs on the set plate rest in the mini planer blade groove, then press in the heel of the adjusting plate flush with the back side of the gauge base and tighten the pan head screws.
- 4. It is important that the blade sits flush with the inside flank of the gauge plate, the planer blade locating lugs sit in the blade groove and the heel of the adjusting plate is flush with the back side of the gauge base. Check this alignment carefully to ensure uniform cutting.
- Slip the heel of the adjusting plate into the groove of the drum. (Fig. 12)

- Set the drum cover over the adjusting plate/set plate
 and screw in the three hex flange head bolts so that a
 gap exists between the drum and the set plate to slide
 the mini planer blade into position. The blade will be
 positioned by the planer blade locating lugs on the set
 plate.
- The blade's lengthwise adjustment will need to be manually positioned so that the blade ends are clear and equidistant from the housing on one side and the metal bracket on the other.
- Tighten the three hex flange head bolts (with the socket wrench provided) and rotate the drum to check clearances between the blade ends and the tool body.
- Check the three hex flange head bolts for final tightness.
- Repeat procedures 1 9 for the other blade.

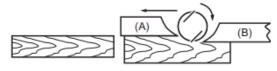
For the correct planer blade setting

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.



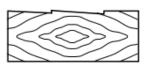
- (A) Front base (Movable shoe)
- (B) Rear base (Stationary shoe)

Correct setting



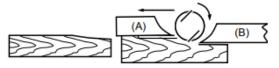
Although this side view cannot show it, the edges of the blades run perfectly parallel to the rear base surface.

Nicks in surface



Cause: One or both blades fails to have edge parallel to rear base line.

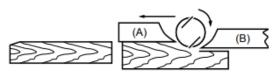
Gouging at start



Cause: One or both blade edges fails to protrude enough in relation to rear

base line.

Gouging at end



Cause: One or both blade edges protrudes too far in relation to rear base line.

EN0004-1

Dust bag (accessory) (Fig. 13)

For tool without nozzle

Remove the chip cover and install the nozzle (optional accessory). Attach the dust bag onto the nozzle. The nozzle is tapered. When attaching the dust bag, push it onto the nozzle firmly as far as it will go to prevent it from coming off during operation.

For tool with nozzle

Attach the dust bag onto the nozzle. The nozzle is tapered. When attaching the dust bag, push it onto the nozzle firmly as far as it will go to prevent it from coming off during operation. (Fig. 14)

When the dust bag is about half full, remove the dust bag from the tool and pull the fastener out. Empty the dust bag of its contents, tapping it lightly so as to remove particles adhering to the insides which might hamper further collection.

NOTE:

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

Connecting a vacuum cleaner (Fig. 15)

For tool without nozzle

When you wish to perform clean planing operation, connect a Makita vacuum cleaner to your tool. Before connecting the vacuum cleaner, remove the chip cover from the tool. Then connect a hose of the vacuum cleaner to the nozzle (optional accessory) as shown in the figures.

For tool with nozzle

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

Elbow (optional accessory) (Fig. 16)

Use of elbow allows change of chip discharge direction to perform cleaner work.

For tool without nozzle

Remove the chip cover and install the nozzle (optional accessory). Attach the elbow (optional accessory) on the nozzle of the tool by just slipping on it. To remove it, just pull it out.

For tool with nozzle

Attach the elbow (optional accessory) on the nozzle of the tool by just slipping on it. To remove it, just pull it out.

Nozzle cleaning

Clean the nozzle regularly.
Use a compressed air to clean the clogged nozzle.

OPERATION

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

Planing operation (Fig. 17)

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 power planer 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.



Shiplapping (Rabbeting) (Fig. 18)

To make a stepped cut as shown in the figure, use the edge fence (guide rule) which is obtained as accessory. (Fig. 19)

Draw a cutting line on the workpiece. Insert the edge fence into the hole in the front of the tool. Align the blade edge with the cutting line. (Fig. 20)

Adjust the edge fence until it comes in contact with the side of the workpiece, then secure it by tightening the screw. (Fig. 21)

When planing, move the tool with the edge fence flush with the side of the workpiece. Otherwise uneven planing

Maximum shiplapping (rabbeting) depth is 9 mm. (Fig. 22) You may wish to add to the length of the fence by attaching an extra piece of wood. Convenient holes are provided in the fence for this purpose, and also for attaching an extension guide (optional accessory).

Chamfering (Fig. 23 & 24)

To make a chamfering cut as shown in the figure, align the "V" groove in the front base with the edge of the workpiece and plane it.

MAINTENANCE

CAUTION:

- Always be sure that the tool is switched off and the battery cartridge is removed before attempting to perform inspection or maintenance.
- Never use gasoline, benzine, thinner, alcohol or the like. Discoloration, deformation or cracks may result.

Sharpening the planer blades

For conventional blades only (Fig. 25)

Always keep your blades sharp for the best performance possible. Use the sharpening holder (optional accessory) to remove nicks and produce a fine edge. (Fig. 26) 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. 27) 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.

Replacing carbon brushes (Fig. 28)

Remove and check the carbon brushes regularly. Replace when they wear down to the limit mark. Keep the carbon brushes clean and free to slip in the holders. Both carbon brushes should be replaced at the same time. Use only identical carbon brushes. (Fig. 29)

Use a screwdriver to remove the brush holder caps. Take out the worn carbon brushes, insert the new ones and secure the brush holder caps.

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

OPTIONAL ACCESSORIES

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.

- 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)
- Extension guide set
- Dressing stone
- Nozzle
- Dust bag assembly
- Elbow
- Socket wrench
- Plastic carrying case
- Various type of Makita genuine batteries and chargers

NOTE:

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

Noise FNG905-1

The typical A-weighted noise level determined according to EN62841-2-14:

Model DKP140

Sound pressure level (L_{DA}): 86 dB (A) Sound power level (L_{WA}): 97 dB (A) Uncertainty (K): 3 dB (A)

Vibration

ENG900-1

ENG901-1

The vibration total value (tri-axial vector sum) determined according to EN62841-2-14:

Model DKP140

Work mode: planing softwood Vibration emission (a_h): 3.5 m/s²

Uncertainty (K): 1.5 m/s²

Model DKP180

Work mode: planing softwood Vibration emission (a_h): 4.5 m/s²

Uncertainty (K): 1.5 m/s²

- The declared vibration emission value has been measured in accordance with the standard test method and may be used for comparing one tool with another.
- The declared vibration emission value 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 emission value depending on the ways in which the tool is used.
- 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.