



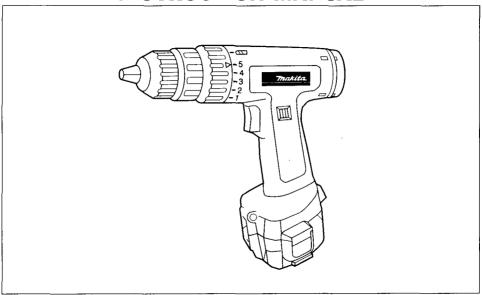
Cordless Driver Drill

Equipped with Electric Brake

MODEL 6223DE MODEL 6223DWE

With Fast Charger

INSTRUCTION MANUAL



SPECIFICATIONS

٠	Model	6223D

Capacities			No load speed	Dimensions	Net	
Steel	Wood	Wood screw	Machine screw	(RPM)	(L x W x H)	weight
10 mm (3/8'')	15 mm (5/8'')	5.1 mm x 35 mm (3/16" x 1-3/8")	6 mm (1/4'')	0 - 700	202 mm x 94 mm x 221 mm (7-15/16" x 3-11/16" x 8-3/4")	1.5 kg (3.1 lbs)

Battery Cartridge 1220	Model DC1290 Fast Charger				
Voltage	Input	Output	Charging time		
12 V	A.C. only 50 Hz 60 Hz	D.C. 9.6 V, 12 V	1 Hr.		

- * Manufacturer reserves the right to change specifications without notice.
- * Note: Specifications may differ from country to country.

WARNING: For your personal safety, READ and UNDERSTAND before using.

SAVE THESE INSTRUCTION SUPPOSED FUTURES REFERENCE AND DOWNLOAD.

GENERAL SAFETY RULES

(For All Battery Operated Tools)

WARNING! Read and understand all instructions. Failure to follow all instructions listed below, may result in electric shock, fire and/or serious personal injury.

SAVE THESE INSTRUCTIONS

Work Area

- Keep your work area clean and well lit. Cluttered benches and dark areas invite accidents.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Power tools create sparks which may ignite the dust or fumes.
- Keep bystanders, children, and visitors away while operating a power tool. Distractions can cause you to loose control.

Electrical Safety

- A battery operated tool with integral batteries or a separate battery pack must be recharged only with the specified charger for the battery. A charger that may be suitable for one type of battery may create a risk of fire when used with another battery.
- Use battery operated tool only with specifically designated battery pack. Use
 of any other batteries may create a risk of fire.

Personal Safety

- Stay alert, watch what you are doing, and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.
- Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.
- Avoid accidental starting. Be sure switch is in the locked or off position before inserting battery pack. Carrying tools with your finger on the switch or inserting the battery pack into a tool with the switch on invites accidents.
- Remove adjusting keys or switches before turning the tool on. A wrench or
 a key that is left attached to a rotating part of the tool may result in personal injury.
- Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enable better control of the tool in unexpected situations.
- Use safety equipment. Always wear eye protection. Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.

Tool Use and Care

- Use clamps or other practical way to secure and support the workpiece to a stable platform. Holding the work by hand or against your body is unstable and may lead to loss of control.
- Do not force tool. Use the correct tool for your application. The correct tool will do the job better and safer at the rate for which it is designed.
- Do not use tool if switch does not turn it on or off. A tool that cannot be controlled with the switch is dangerous and must be repaired.
- Disconnect battery pack from tool or place the switch in the locked or off position before making any adjustments, changing accessories, or storing the tool. Such preventive safety measures reduce the risk of starting the tool accidentally.
- Store idle tools out of reach of children and other untrained persons. Tools are dangerous in the hands of untrained users.
- When battery pack is not in use, keep it away from other metal objects like: paper clips, coins, keys, nails, screws, or other small metal objects that can make a connection from one terminal to another. Shorting the battery terminals together may cause sparks, burns, or a fire.
- Maintain tools with care. Keep cutting tools sharp and clean. Properly maintained tools with sharp cutting edge are less likely to bind and are easier to control.
- Check for misalignment or binding of moving parts, breakage of parts, and any
 other condition that may affect the tool's operation. If damaged, have the tool
 serviced before using. Many accidents are caused by poorly maintained tools.
- Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool may create a risk of injury when used on another tool.

Service

- Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel may result in a risk of injury.
- When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual. Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of shock of injury.

Specific Safety Rules

- 1. Hold tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring. Contact with a "live" wire will also make exposed metal parts of the tool "live" and shock the operator.
- 2. Be aware that this tool is always in an operating condition, because it does not have to be plugged into an electrical outlet.
- 3. Always be sure you have a firm footing.

 Be sure no one is below when using the tool in high locations.
- 4. Hold the tool firmly.
- 5. Keep hands away from rotating parts.
- 6. Do not leave the tool running. Operate the tool only when hand-held.
- 7. Do not touch the drill bit or the workpiece immediately after operation; they may be extremely hot and could burn your skin.

SYMBOLS

The followings show the symbols used for tool.

V	volts
Α	amperes
Hz	herts
kg	kilograms
h	hours
min	minutes
S	seconds
\sim	alternating current
	direct current
n _o	no load speed
$\overline{\sim}$	alternating or direct current
	splash-proof construction
	watertight construction
/min	revolutions or reciprocation per minute
	number of blow

IMPORTANT SAFETY INSTRUCTIONS FOR CHARGER & BATTERY CARTRIDGE

- 1. **SAVE THESE INSTRUCTIONS** This manual contains important safety and operating instructions for battery charger.
- 2. Before using battery charger, read all instructions and cautionary markings on (1) battery charger, (2) battery, and (3) product using battery.
- 3. CAUTION To reduce risk of injury, charge only MAKITA Battery Cartridge 1200, 1210, 1220, 9000, 9100, 9120. Other types of batteries may burst causing personal injury and damage.
- 4. Do not expose charger to rain or snow.
- 5. Use of an attachment not recommended or sold by the battery charger manufacturer may result in a risk of fire, electric shock, or injury to persons.
- To reduce risk of damage to electric plug and cord, pull by plug rather than cord when disconnecting charger.
- 7. Make sure cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.
- 8. An extension cord should not be used unless absolutely necessary. Use of improper extension cord could result in a risk of fire and electric shock. If extension cord must be used, make sure:
 - a. That pins on plug of extension cord are the same number, size, and shape as those of plug on charger;
 - b. That extension cord is properly wired and in good electrical condition; and
 - c. That wire size is at least as large as the one specified in the table below.

TABLE 1 RECOMMENDED MINIMUM AWG SIZE FOR EXTENSION CORDS FOR BATTERY CHARGERS

Length of Cord (Feet)	25	50	100	150
AWG Size of Cord	18	18	18	16

- Do not operate charger with damaged cord or plug replace them immediately.
- Do not operate charger if it has received a sharp blow, been dropped, or otherwise damaged in any way; take it to a qualified serviceman.
- 11. Do not disassemble charger or battery cartridge; take it to a qualified serviceman when service or repair is required. Incorrect reassembly may result in a risk of electric shock or fire.
- 12. To reduce risk of electric shock, unplug charger from outlet before attempting any maintenance or cleaning. Turning off controls will not reduce this risk.

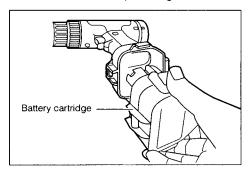
ADDITIONAL SAFETY RULES FOR CHARGER & BATTERY CARTRIDGE

- 1. Do not charge Battery Cartridge when temperature is BELOW 10°C (50°F) or ABOVE 40°C (104°F).
- 2. Do not attempt to use a step-up transformer, an engine generator or DC power receptacle.
- 3. Do not allow anything to cover or clog the charger vents.
- 4. Always cover the battery terminals with the battery cover when the battery cartridge is not used.
- 5. A battery short can cause a large current flow, overheating, possible burns and even a breakdown.
 - (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.
- 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.

SAVE THESE INSTRUCTIONS.

Installing or removing battery cartridge

- •Always switch off the tool before insertion or removal of the battery cartridge.
- •To remove the battery cartridge, withdraw it from the tool while pressing the buttons on both sides of the cartridge.
- •To insert 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 not, it may accidentally fall out of the tool, causing injury to you or someone around you.



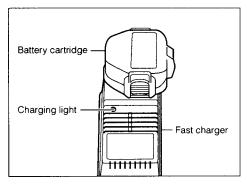
Do not use force when inserting the battery cartridge.
 If the cartridge does not slide in easily, it is not being inserted correctly.

Charging

Plug the fast charger into your power source. Insert the battery cartridge so that the plus and minus terminals on the battery cartridge are on the same sides as their respective markings on the fast charger. Insert the cartridge fully into the port so

The charging light will come on and charging will begin. If the charging light goes out soon, remove the battery cartridge from the charger and let it cool off for more than one

that it resets on the charger port floor.



minute. Then re-insert it and try to charge it once more. If the charging light goes out within one minute even after repeating this procedure a couple of times, the battery cartridge is dead. Replace it with a new one.

When the charging light goes out after about one hour, you may remove the fully charged battery cartridge.

After charging, unplug the charger from the power source.

CAUTION:

- •Your new battery cartridge is not charged. You will need to charge it before use.
- •If you try to charge a cartridge from a just-operated tool, sometimes the charging light will not come on. If this occurs, let the cartridge cool off for a while. Then re-insert it and try to charge it once more.
- •When you charge a new battery cartridge or a battery cartridge which has not been used for a long period, it may not accept a full charge. This is a normal condition and does not indicate a problem. You can recharge the battery cartridge fully after discharging it almost completely a couple of times.
- •If you wish to charge two battery cartridges, allow 15 minutes between chargings on the fast charger.

ASSEMBLY

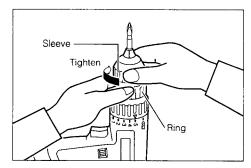
Installing or removing driver bit or drill bit

CAUTION:

Always be sure that the tool is switched off and the battery cartridge is removed before installing or removing the bit.

Hold the ring and turn the sleeve counterclockwise to open the chuck jaws. Place the bit in the chuck as far as it will go. Hold the ring firmly and turn the sleeve clockwise to tighten the chuck.

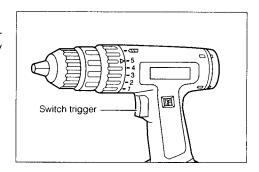
To remove the bit, hold the ring and turn the sleeve counterclockwise.



OPERATION

Switch action

Tool speed is increased by increasing pressure on the trigger. To start the tool, simply pull the trigger. Release the trigger to stop.

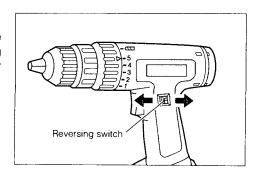


CAUTION:

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

Reversing switch action

This tool has a reversing switch to change the direction of rotation. Slide the reversing switch to the left for clockwise rotation or to the right for counterclockwise.



CAUTION:

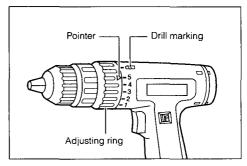
- •Always check the direction of rotation before operation.
- •Move the reversing switch only after the tool comes to a complete stop. Changing the direction of rotation before the tool stops may damage the tool.

CAUTION:

Always withdraw the tool from the workpiece before resuming operation. If the tool cannot be withdrawn, hold the tool firmly when turning on the tool, to overcome a strong reaction.

Adjusting the fastening torque

The fastening torque can be adjusted in six stages by turning the adjusting ring so that the pointer on the adjusting ring points to a number on the tool body. The fastening torque is minimum when the pointer points to the number 1 and maximum when it points to the marking. The clutch will slip at varying torque levels when the pointer is set at the numbers 1 to 5. The clutch is designed not to slip at the marking.



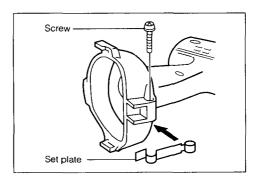
Before actual operation, drive a trial screw into your material or a piece of duplicate material to determine which torque level is required for a particular application.

NOTE:

The adjusting ring cannot be locked with the pointer positioned half-way between the numbers.

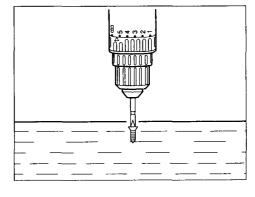
Installing set plate

Always install the set plate when using battery cartridges 1200, 1202 or 1202A. Install the set plate on the tool with the screw provided.



Screwdriving operation

Place the point of the driver bit in the screw head and apply pressure to the tool. Start the tool slowly and then increase the speed gradually. Release the trigger as soon as the clutch cuts in.



NOTE:

- •Make sure that the driver bit is inserted straight in the screw head, or the screw and/or bit may be damaged.
- When driving wood screws, predrill pilot holes to make driving easier and to prevent splitting of the workpiece. See the chart.

Nominal diameter of wood screw (mm)	Recommended size of pilot hole (mm)
3.1 (1/8'')	2.0 - 2.2 (5/64" - 3/32")
3.5 (9/64'')	2.2 - 2.5 (3/32" - 3/32")
3.8 (5/32'')	2.5 - 2.8 (3/32" - 7/64")
4.5 (11/64'')	2.9 - 3.2 (7/64" - 1/8")
4.8 (3/16'')	3.1 - 3.4 (1/8" - 9/64")
5.1 (13/64")	3.3 - 3.6 (1/8" - 9/64")

Drilling operation

First, turn the adjusting ring so that the pointer on the adjusting ring points to the marking. Then proceed as follows.

- Drilling in wood
- When drilling in wood, best results are obtained with wood drills equipped with a guide screw. The guide screw makes drilling easier by pulling the bit into the workpiece.
- Drilling in metal

To prevent the bit from slipping when starting a hole, make an indentation with a centerpunch and hammer at the point to be drilled. Place the point of the bit in the indentation and start drilling.

Use a cutting lubricant when drilling metals. The exceptions are iron and brass which should be drilled dry.

CAUTION:

- •Pressing excessively on the tool will not speed up the drilling. In fact, this excessive pressure will only serve to damage the tip of your bit, decrease the tool performance and shorten the service life of the tool.
- •There is a tremendous force exerted on the tool/bit at the time of hole breakthrough. Hold the tool firmly and exert care when the bit begins to break through the workpiece.
- •A stuck bit can be removed simply by setting the reversing switch to reverse rotation in order to back out. However, the tool may back out abruptly if you do not hold it firmly.
- •Always secure small workpieces in a vise or similar hold-down device.

MAINTENANCE

CAUTION:

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

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

Recycling the Battery

The <u>only</u> way to dispose of a Makita battery is to recycle it. The law prohibits any other method of disposal.



To recycle the battery:

- 1. Remove the battery from the tool.
- a). Take the battery to your nearest Makita Factory Service Center or
 - b). Take the battery to your nearest Makita Authorized Service Center or Distributor that has been designated as a Makita battery recycling location.
 - Call your nearest Makita Service Center or Distributor to determine the location that provides Makita battery recycling. See your local Yellow Pages under ''Tools-Flectric''.

ACCESSORIES

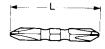
CAUTION:

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. The accessories or attachments should be used only in the proper and intended manner.

• Bits

	Size	Part No.
Phillips	# 2	784214-0A
	#3	784215-0A
Slotted	# 5F	784010-0A
	# 7F	784011-0A
Square drill bit		784606-0A

Phillips bit



Part No.	Size	L (mm)
784201-5	No. 1	65 (2-5/8'')
784202-3	203-1 206-5	45 (1-3/4'')
784203-1		65 (2-5/8'')
784206-5		110 (4-3/8′′)
784207-3		150 (5-7/8′′)

Drill bits

Tested best in Makita driver-drills for smooth fast drilling and more holes per battery change. High speed steel. For drilling in metal, wood and plastic. Jobbers length. Special surface treatment for lubricity gives smoother drilling.



Part No.	Drill dia.	Shank dia.	Flute length	Overall length
711011-A	1/16''	1/16''	7/8''	1-7/8"
711012-A	3/32''	3/32''	1-1/4"	2-1/4"
711013-A	1/8′′	1/8′′	1-5/8''	2-3/4''
711014-A	5/32''	5/32''	2"	3-1/8′′
711015-A	3/16''	3/16"	2-5/16''	3-1/2''
711016-A	7/32''	7/32''	2-1/2"	3-3/4''
711017-A	1/4′′	1/4"	2-3/4''	4/''
711018-A	9/32''	9/32''	2-5/16''	4-1/4′′
711019-A	5/16''	5/16''	3-3/16''	4-1/2''
711020-A	11/32''	11/32''	3-7/16''	4-3/4''
711021-A	3/8"	3/8′′	3-5/8''	5′′
711000-A-A	711000-A-A 6 pc. set: 1/16", 1/8", 3/16", 1/4", 5/16", 3/8" Best selling bits in			

convenient case.

Rubber pad assembly Part No. 123001-2





Foam polishing pad Part No. 743023-2



Wool bonnet

Part No. 743401-6



1 Hour charger Model DC1290

Part No. 113119-7



High Capacity charger Model DC1201

Part No. 113126-0



• Battery cartridge 1220 Part No. 632804-8



• Plastic carrying case Part No. 824510-1



High Capacity charger Model DC1411



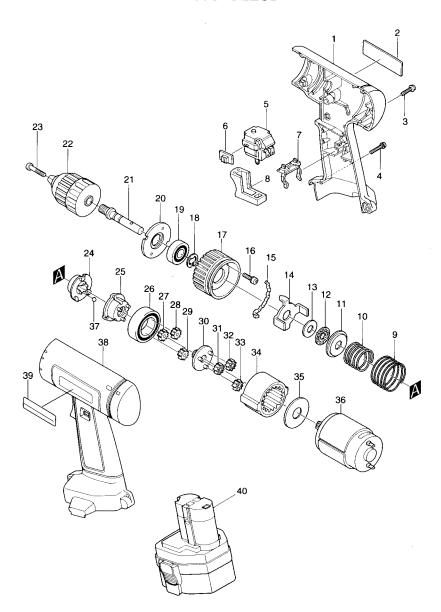
 Automotive High Capacity Charger Model DC1412



• Battery cover Part No. 414938-7



CORDLESS DRIVER DRILL Model 6223D



Note: The switch and other part configurations may differ from country to country.

NO.	NO. USED	DESCRIPTION	ITEM NO.	NO. USED	DESCRIPTION	
MAC	HINE		MAC	HINE		
1	1	Housing Set (With Item 38)	21	1	Spindle	
2	1	Name Plate	22	1	Keyless Drill Chuck 10	
3	6	Tapping Screw 4x18	23	1	Pan Head Screw M5x22	
4	1	Pan Head Screw M4x22	24	1	Clutch Cam	
5	1 1	Switch	25	1	Clutch Cam Complete	
6	1	Lever	26	1	Ball Bearing 6805LLB	
7	1	Battery Holder	27	1	Spur Gear 15	
8	1	Switch Lever	28	1	Spur Gear 15	
9	1	Compression Spring 27	29	1	Spur Gear 15	
10	1	Compression Spring 22	30	1	Spur Gear 9 Complete	
1.1	1 1	Washer 10	31	1	Spur Gear 15	
12	1	Thrust Needle Gauge 1023	32	1	Spur Gear 15	
13	1	Flat Washer 10	33	1	Spur Gear 15	
14	1	Slider	34	1	Internal Gear 42	
15	2	Cam Plate	35	1	Flat Washer 12	
16	2	Pan Head Screw M3x14	36	1	DC Motor	
17	1	Change Ring	37	3	Steel Ball 5.6	
18	1	Stop Ring E 9	38	1	Housing Set (With Item 1)	
19	1 1	Ball Bearing 6000LLB	39	1	Makita Label	
20	1	Bearing Retainer 14	40	1	Battery 1220	

Note: The switch and other part specifications may differ from country to country.

MAKITA LIMITED ONE YEAR WARRANTY

Warranty Policy

Every Makita tool is thoroughly inspected and tested before leaving the factory. It is warranted to be free of defects from workmanship and materials for the period of ONE YEAR from the date of original purchase. Should any trouble develop during this one-year period, return the COMPLETE tool, freight prepaid, to one of Makita's Factory or Authorized Service Centers. If inspection shows the trouble is caused by defective workmanship or material, Makita will repair (or at our option, replace) without charge.

This Warranty does not apply where:

- repairs have been made or attempted by others:
- repairs are required because of normal wear and tear:
- The tool has been abused, misused or improperly maintained;
- alterations have been made to the tool.

IN NO EVENT SHALL MAKITA BE LIABLE FOR ANY INDIRECT, INCIDENTAL OR CON-SEQUENTIAL DAMAGES FROM THE SALE OR USE OF THE PRODUCT. THIS DISCLAIMER APPLIES BOTH DURING AND AFTER THE TERM OF THIS WARRANTY.

MAKITA DISCLAIMS LIABILITY FOR ANY IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF "MERCHANTABILITY" AND "FITNESS FOR A SPECIFIC PURPOSE," AFTER THE ONE-YEAR TERM OF THIS WARRANTY.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you.

Makita (China) Co., Ltd.

HUANGPU JIANG ROAD, KUNSHAN ECONOMIC & TECHNICAL DEVELOPMENT ZONE, JIANGSU P.R. CHINA

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