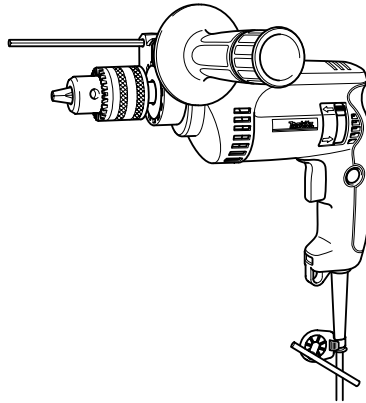




Hammer Drill

MODEL HP1620
MODEL HP1620F
MODEL HP1621
MODEL HP1621F



004358



I N S T R U C T I O N M A N U A L

⚠ WARNING:

For your personal safety, READ and UNDERSTAND before using.
SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

SPECIFICATIONS

Model		HP1620/HP1620F/HP1621/HP1621F
Capacities	Concrete	16 mm (5/8")
	Steel	13 mm (1/2")
	Wood	30 mm (1-3/16")
No load speed (RPM)		0 - 2,800/min.
Blows per minute		0 - 44,800
Overall length		303 mm (11-7/8")
Net weight		1.7 kg (3.7 lbs)

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

GENERAL SAFETY RULES

USA002-2

(For All 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

1. **Keep your work area clean and well lit.** Cluttered benches and dark areas invite accidents.
2. **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.

3. **Keep bystanders, children, and visitors away while operating a power tool.** Distractions can cause you to lose control.

Electrical Safety

4. **Double insulated tools are equipped with a polarized plug (one blade is wider than the other.) This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified elec-**

trician to install a polarized outlet. Do not change the plug in any way. Double insulation □ eliminates the need for the three wire grounded power cord and grounded power supply system.

- 5. Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is grounded.
- 6. Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- 7. Do not abuse the cord. Never use the cord to carry the tools or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately.** Damaged cords increase the risk of electric shock.
- 8. When operating a power tool outside, use an outdoor extension cord marked “W-A” or “W”.** These cords are rated for outdoor use and reduce the risk of electric shock.

Personal Safety

- 9. 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.
- 10. 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.
- 11. Avoid accidental starting. Be sure switch is off before plugging in.** Carrying tools with your finger on the switch or plugging in tools that have the switch on invites accidents.
- 12. Remove adjusting keys or wrenches 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.

13. Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enables better control of the tool in unexpected situations.

14. Use safety equipment. Always wear eye protection. Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions. Ordinary eye or sun glasses are NOT eye protection.

Tool Use and Care

15. 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.

16. 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.

17. Do not use tool if switch does not turn it on or off. Any tool that cannot be controlled with the switch is dangerous and must be repaired.

18. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool. Such preventive safety measures reduce the risk of starting the tool accidentally.

19. Store idle tools out of reach of children and other untrained persons. Tools are dangerous in the hands of untrained users.

20. Maintain tools with care. Keep cutting tools sharp and clean. Properly maintained tools with sharp cutting edges are less likely to bind and are easier to control.

21. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tools operation. If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools.

22. Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool, may become hazardous when used on another tool.

SERVICE

23. Tool service must be performed only by qualified repair personnel. Service or main-

tenance performed by unqualified personnel could result in a risk of injury.

24. 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 electric shock or injury.

USE PROPER EXTENSION CORD: Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Table 1 shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gage. The smaller the gage number, the heavier the cord.

Table 1: Minimum gage for cord

Ampere Rating		Volts	Total length of cord in feet			
		120 V	25 ft.	50 ft.	100 ft.	150 ft.
More Than	Not More Than	AWG				
0	6		18	16	16	14
6	10		18	16	14	12
10	12		16	16	14	12
12	16		14	12	Not Recommended	

SPECIFIC SAFETY RULES

USB002-2

DO NOT let comfort or familiarity with product (gained from repeated use) replace strict adherence to hammer drill safety rules. If you use this tool unsafely or incorrectly, you can suffer serious personal injury.

- 1. Hold tools by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord.** Contact with a “live” wire will make exposed metal parts of the tool “live” and shock the operator.
- 2. Always be sure you have a firm footing.** Be sure no one is below when using the tool in high locations.
- 3. Hold the tool firmly with both hands. Always use the side grip.**
- 4. Keep hands away from rotating parts.**
- 5. Do not leave the tool running. Operate the tool only when hand-held.**

-
6. Do not touch the bit or the workpiece immediately after operation; they may be extremely hot and could burn your skin.
7. Some material contains chemicals which may be toxic. Take caution to prevent working dust inhalation and skin contact. Follow material supplier safety data.
-

SAVE THESE INSTRUCTIONS

⚠ WARNING:
MISUSE or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.

SYMBOLS

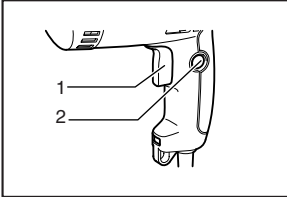
USD202-2

The followings show the symbols used for tool.

- | | | | |
|--|---------------------|---|---|
| V | volts | n₀ | no load speed |
| A | amperes | □ | Class II Construction |
| Hz | hertz | .../min | revolutions or reciprocation per minute |
|  | alternating current |  | number of blow |

FUNCTIONAL DESCRIPTION

004359



1. Switch trigger
2. Lock button

⚠ CAUTION:

- Always be sure that the tool is switched off and unplugged before adjusting or checking function on the tool.

Switch action

⚠ CAUTION:

- Before plugging in the tool, always check to see that the switch trigger actuates properly and returns to the “OFF” position when released.
- Switch can be locked in “ON” position for ease of operator comfort during extended use. Apply caution when locking tool in “ON” position and maintain firm grasp on tool.

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

For continuous operation, pull the switch trigger and then push in the lock button.

To stop the tool from the locked position, pull the switch trigger fully, then release it.

Lighting up the lamps

For Model HP1620F, HP1621F

⚠ CAUTION:

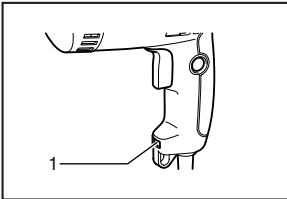
- Do not look in the light or see the source of light directly.

To turn on the lamp, pull the trigger. Release the trigger to turn it off.

NOTE:

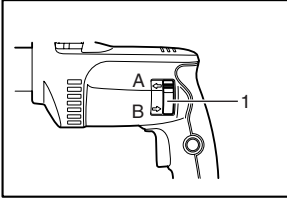
- Use a dry cloth to wipe the dirt off the lens of lamp. Be careful not to scratch the lens of lamp, or it may lower the illumination.
- Never use gasoline or thinner to clean the lens of the lamp, or it will be damaged.

004360



1. Lamp

004361



1. Reversing switch

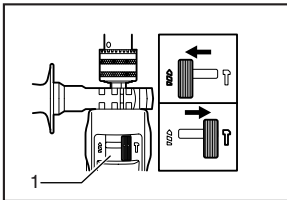
Reversing switch action

This tool has a reversing switch to change the direction of rotation. Move the reversing switch to the ← position (A side) for clockwise rotation or the → position (B side) for counterclockwise rotation.

⚠ CAUTION:

- Always check the direction of rotation before operation.
- Use 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.
- If the switch trigger can not be depressed, check to see that the reversing switch is fully set to position ← (A side) or → (B side).

004362



1. Action mode changing lever

Selecting the action mode

This tool has an action mode change lever. For rotation with hammering, slide the action mode change lever to the right (⌘ symbol). For rotation only, slide the action mode change lever to the left (⌚ symbol).

⚠ CAUTION:

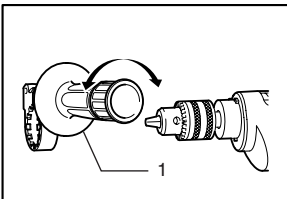
- Always slide the action mode change lever all the way to your desired mode position. If you operate the tool with the lever positioned halfway between the mode symbols, the tool may be damaged.

ASSEMBLY

⚠ CAUTION:

- Always be sure that the tool is switched off and unplugged before carrying out any work on the tool.

004363



1. Side grip

Installing side grip (auxiliary handle)

Always use the side grip to ensure operating safety. Install the side grip on tool barrel.

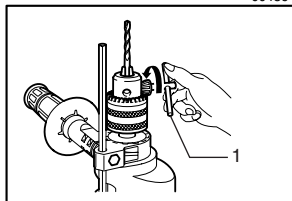
Then tighten the grip by turning clockwise securely at the desired position. It may be swung 360° so as to be secured at any position.

NOTE:

- The side grip cannot swing 360° when the depth gauge is installed.

Installing or removing drill bit

004364



1. Chuck key

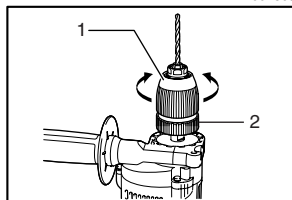
For Model HP1620, HP1620F

To install the bit, place it in the chuck as far as it will go. Tighten the chuck by hand. Place the chuck key in each of the three holes and tighten clockwise. Be sure to tighten all three chuck holes evenly.

To remove the bit, turn the chuck key counterclockwise in just one hole, then loosen the chuck by hand.

After using the chuck key, be sure to return to the original position.

004365



1. Sleeve

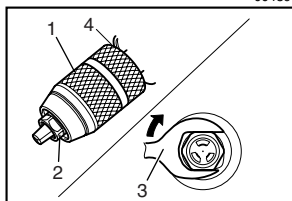
2. Ring

For Model HP1621, HP1621F

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.

004390



1. Sleeve

2. Hexagonal nut

3. Wrench 19

4. Retaining ring

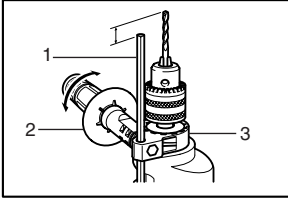
NOTE:

- If the keyless drill chuck cannot be loosened because of a drill bit being caught inside the jaws of the chuck, loosen the drill chuck as follows.

1. Hold the sleeve of the drill chuck firmly with water pump pliers or the like (Note: Do not hold the retaining ring portion.)

2. Place the wrench 19, adjustable wrench or one of other appropriate wrenches on the hexagonal nut at the front of the drill chuck. Turn the wrench clockwise as shown in the figure to loosen the drill chuck.

004366



1. Depth gauge
2. Side grip
3. Grip base

Depth gauge

The depth gauge is convenient for drilling holes of uniform depth. Loosen the side grip and insert the depth gauge into the hole in the side grip. Adjust the depth gauge to the desired depth and tighten the side grip.

NOTE:


- The depth gauge cannot be used at the position where the depth gauge strikes against the tool body.

OPERATION

Hammer drilling operation

⚠ CAUTION:

- There is a tremendous and sudden twisting force exerted on the tool/bit at the time of hole break-through, when the hole becomes clogged with chips and particles, or when striking reinforcing rods embedded in the concrete. Always use the side grip (auxiliary handle) and firmly hold the tool by both side grip and switch handle during operations. Failure to do so may result in the loss of control of the tool and potentially severe injury.

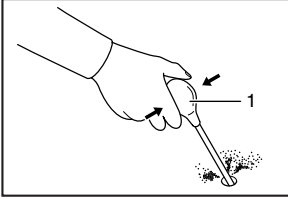
When drilling in concrete, granite, tile, etc., move the action mode changing lever to the position of  symbol to use “rotation with hammering” action.

Be sure to use a tungsten-carbide tipped bit.

Position the bit at the desired location for the hole, then pull the switch trigger. Do not force the tool. Light pressure gives best results. Keep the tool in position and prevent it from slipping away from the hole.

Do not apply more pressure when the hole becomes clogged with chips or particles. Instead, run the tool at an idle, then remove the bit partially from the hole. By repeating this several times, the hole will be cleaned out and normal drilling may be resumed.

001302




1. Blow-out bulb

Blow-out bulb (optional accessory)

After drilling the hole, use the blow-out bulb to clean the dust out of the hole.

Drilling operation

When drilling in wood, metal or plastic materials, move the action mode changing lever to the position of  symbol to use “rotation only” action.

Drilling in wood

When drilling in wood, the 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 center-punch 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 break through. 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 unplugged before attempting to perform inspection or maintenance.

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

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.

- Drill bits
- Hammer drill bits
- Hole saws
- Blow-out bulb
- Safety goggles
- Chuck key
- Grip assembly
- Depth gauge
- Plastic carrying case

Cut



**Makita Canada Inc.
1950 Forbes Street,
Whitby, Ontario
L1N 7B7**

Stamp
Timbre

Fold

Your answers to the following questions are appreciated.

1. This product was purchased from?

- Hardware/lumber Store Industrial Supply
 Tool Distributor Other ()

3. How did you first learn of Makita Power Tools?

- Magazine/Newspaper Catalog
 From dealer Other ()
 Store display

2. Use of the product is intended for?

- Construction trade Home maintenance
 Industrial maintenance Other ()

4. Most favored points are?

- Design Makita Brand
 Features Power
 Size Other ()
 Price

5. Any comments?

Certificate of Warranty Mail to Makita

Date Purchased Month: <input style="width: 30px; height: 20px;" type="text"/> <input style="width: 30px; height: 20px;" type="text"/> Day: <input style="width: 30px; height: 20px;" type="text"/> <input style="width: 30px; height: 20px;" type="text"/> Year 20: <input style="width: 30px; height: 20px;" type="text"/> <input style="width: 30px; height: 20px;" type="text"/>	Model No. <input style="width: 95%; height: 25px;" type="text"/> <hr/> Serial No. <input style="width: 95%; height: 25px;" type="text"/>
Initial Last Name: <input style="width: 100%; height: 25px;" type="text"/>	
Male <input type="checkbox"/> Female <input type="checkbox"/> Single <input type="checkbox"/> Married <input type="checkbox"/>	
Street Address: <input style="width: 100%; height: 25px;" type="text"/>	
City: <input style="width: 95%; height: 25px;" type="text"/>	Province: <input style="width: 95%; height: 25px;" type="text"/>
Postal Code: <input style="width: 95%; height: 25px;" type="text"/>	
AGE: <input type="checkbox"/> Under 19 <input type="checkbox"/> 20-29 <input type="checkbox"/> 30-39 <input type="checkbox"/> 40-49 <input type="checkbox"/> Over 50	

Occupation:

Dealer's Name & Address:

Factory Service Centres

Head Office:	1950 Forbes St., Whitby, Ontario, L1N 7B7 (905) 571 - 2200	1-800-263-3734
Regional Office:	11771 Hammersmith Way, Richmond B.C. V7A 5H6 (604) 272 - 3104	1-800-663-0909
Regional Office: (Montreal)	6389 boul. Couture, St. Leonard, Quebec H1P 3J5 (514) 323 - 1223	1-800-361-7049
Dartmouth:	202 Brownlow Avenue Dartmouth, N.S., B3B 1T5 (902) 468 - 7064	1-888-625-4821
Ville St. Laurent: (Montreal)	1140 Rue Bégin, Ville St. Laurent, Quebec H4R 1X1 (514) 745 - 5025	1-888-745-5025
Les Saules: (Quebec)	1200 St. Jean Baptiste, Unit 106, Les Saules, Quebec, G2E 5E8 (418) 871 - 5720	1-800-663-5757
Nepean: (Ottawa)	210 Colonnade Road, Unit 11, Nepean, Ontario, K2E 7M1 (613) 224 - 5022	1-888-560-2214
Whitby:	1950 Forbes St., Whitby, Ontario, L1N 7B7 (905) 571 - 2200	1-800-263-3734
London:	317 Adelaide St. S., Unit 117, London, Ontario, N5Z 3L3 (519) 686 - 3115	1-800-571-0899
Mississauga:	6350 Tomken Rd., Unit 8, Mississauga, Ontario, L5T 1Y3 (905) 670 - 7255	1-888-221-9811
Calgary:	#8-6115 Fourth St. S.E., Calgary Alberta, T2H 2H9 (403) 243 - 3995	1-800-267-0445
Edmonton:	11614-149 Street, Edmonton, Alberta, T5M 3R3 (780) 455 - 6644	1-888-455-6644
Richmond:	11771 Hammersmith Way, Richmond, B.C., V7A 5H6 (604) 272 - 3104	1-800-663-0909
Coquitlam:	2131 Hartley Ave., #103 Coquitlam, B.C. V3K 2Z3 (604) 525 - 7434	1-800-266-7738
Winnipeg:	1670 St. James Street, Winnipeg, Manitoba, R3H 0L3 (204) 694 - 0402	1-800-550-5073
Saskatoon:	206A-2750 Faithful Avenue Saskatoon, Saskatchewan, S7K 6M6 (306) 931 - 0111	1-888-931-0111

For the authorized service centre nearest you please refer to the local yellow pages directory under "tools" or contact our customer service department (Tel) 1-800-263-3734

When you need service...

- Explain the problem in a letter
- Enclose the letter with the tool
- Package carefully and send prepaid to the nearest Makita factory or authorized service centre

CUSTOMER RECORD

DATE
 PURCHASED: _____
 DEALER'S NAME
 & ADDRESS: _____

 MODEL NO.: _____
 SERIAL NO.: _____

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 Centres. 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 normal maintenance is required,
- repairs have been made or attempted by others,
- 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 CONSEQUENTIAL DAMAGES FROM THE SALE OR USE OF THE PRODUCT. THIS DISCLAIMER APPLIES BOTH DURING AND AFTER THE TERM OF THIS WARRANTY.

"The Makita Warranty is the only and the entire written warranty given by Makita for the Makita tools. No dealer or his agent or employee is authorized to extend or enlarge upon this warranty by any verbal or written statement or advertisement."

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 rights. The provisions contained in this warranty are not intended to limit, modify, take away from, disclaim or exclude any warranties set forth in any provincial legislation. To the extent required by law, the provisions in any provincial or federal legislation with respect to warranties take precedence over the provisions in this warranty."

Makita Manufacturing Europe Ltd
Hortonwood 7 Telford, Shropshire, TF1 7YX