

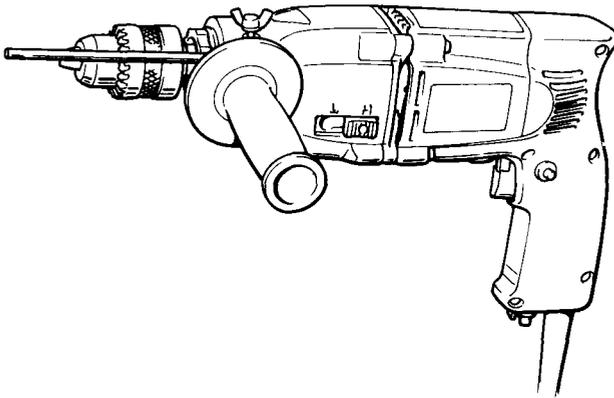
# Makita

アメリカ

## Hammer Drill

MODEL HP2010N  
2-Speed

### INSTRUCTION MANUAL



 **DOUBLE INSULATION**

#### SPECIFICATIONS

Speed	Capacities			No load speed	Blows per minute	Overall length	Net weight
	In wood	In steel	In concrete				
High	20 mm (3/4")	6.5 mm (1/4")	13 mm (1/2")	0 - 2,300 R/min.	0 - 46,000	350 mm (13-3/4")	3 kg (6.6 lbs)
Low	40 mm (1-1/2")	13 mm (1/2")	20 mm (3/4")	0 - 900 R/min.	0 - 18,000		

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

# **IMPORTANT SAFETY INSTRUCTIONS**

**(For All Tools)**

**WARNING: WHEN USING ELECTRIC TOOLS, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, AND PERSONAL INJURY, INCLUDING THE FOLLOWING:**

## **READ ALL INSTRUCTIONS.**

1. **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite injuries.
2. **CONSIDER WORK AREA ENVIRONMENT.** Don't use power tools in damp or wet locations. Keep work area well lit. Don't expose power tools to rain. Don't use tool in presence of flammable liquids or gases.
3. **KEEP CHILDREN AWAY.** All visitors should be kept away from work area. Don't let visitors contact tool or extension cord.
4. **STORE IDLE TOOLS.** When not in use, tools should be stored in dry, and high or locked-up place – out of reach of children.
5. **DON'T FORCE TOOL.** It will do the job better and safer at the rate for which it was intended.
6. **USE RIGHT TOOL.** Don't force small tool or attachment to do the job of a heavy-duty tool. Don't use tool for purpose not intended; for example, don't use circular saw for cutting tree limbs or logs.
7. **DRESS PROPERLY.** Don't wear loose clothing or jewelry. They can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.
8. **USE SAFETY GLASSES.** Also use face or dust mask if cutting operation is dusty.
9. **DON'T ABUSE CORD.** Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.
10. **SECURE WORK.** Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate tool.
11. **DON'T OVERREACH.** Keep proper footing and balance at all times.
12. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and if damaged, have repaired by authorized service facility. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean, and free from oil and grease.
13. **DISCONNECT TOOLS.** When not in use, before servicing, and when changing accessories, such as blades, bits, cutters.

14. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
15. **AVOID UNINTENTIONAL STARTING.** Don't carry tool with finger on switch. Be sure switch is OFF when plugging in.
16. **EXTENSION CORDS.** 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 SETS**

		Total Length of Cord in Feet			
		0 – 25	26 – 50	51 – 100	101 – 150
Ampere Rating More Than	Not More Than	A W G			
0	– 6	18	16	16	14
6	– 10	18	16	14	12
10	– 12	16	16	14	12
12	– 16	14	12	Not Recommended	

17. **OUTDOOR USE EXTENSION CORDS.** When tool is used outdoors, use only extension cords intended for use outdoors and so marked.
18. **STAY ALERT.** Watch what you are doing, use common sense. Don't operate tool when you are tired.
19. **CHECK DAMAGED PARTS.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated elsewhere in this instruction manual. Have defective switches replaced by authorized service center. Don't use tool if switch does not turn it on and off.
20. **GUARD AGAINST ELECTRIC SHOCK.** Prevent body contact with grounded surfaces. For example; pipes, radiators, ranges, refrigerator enclosures.
21. **REPLACEMENT PARTS.** When servicing, use only identical replacement parts.
22. **POLARIZED PLUGS.** To reduce the risk of electric shock, this equipment has 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 electrician to install the proper outlet. Do not change the plug in any way.

**VOLTAGE WARNING:** Before connecting the tool to a power source (receptacle, outlet, etc.) be sure the voltage supplied is the same as that specified on the nameplate of the tool. A power source with voltage greater than that specified for the tool can result in **SERIOUS INJURY** to the user — as well as damage to the tool. If in doubt, **DO NOT PLUG IN THE TOOL**. Using a power source with voltage less than the nameplate rating is harmful to the motor.

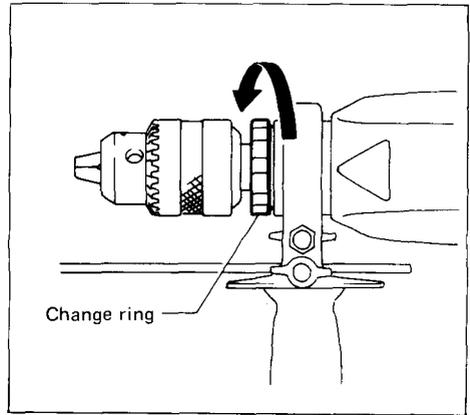
## **ADDITIONAL SAFETY RULES**

1. When drilling into walls, floors or whatever “live” electrical wires may be encountered. **DO NOT TOUCH THE CHUCK OR ANY FRONT METAL PARTS OF THE DRILL**. Hold the tool only by the plastic handle or the side grip to prevent electric shock if you drill into a “live” wire.
2. A tool tends to twist during operation, so grip it firmly with both hands. This twisting action can be especially dangerous at the time of hole breakthrough, when making an already existing hole larger or when a hole being drilled connects with another one.
3. Solidly clamped material is your best insurance against dangerously whirling stock. Use a vise, clamp or holder.
4. Watch your footing and balance in high locations. Be sure no one is below before you begin operation.
5. Do not leave the tool somewhere when it is still running, or a dangerous accident can occur. Operate the tool only when hand-held.
6. Do not touch a revolving bit or chuck. Either can inflict injury or catch on something. Knit gloves should never be worn because they tend to catch.
7. The bit and chips are red-hot after a hole has been drilled. Keep away from them.

**SAVE THESE INSTRUCTIONS.**

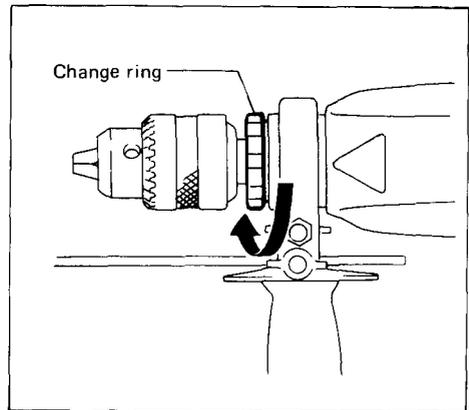
### Rotation with hammering

For drilling extra-hard materials such as concrete, granite, tile and marble, turn the change ring in the direction of multiple-arrow indication. This sets the tool for hammering + rotation (drilling). Use a concrete drill bit.



### Rotation

For drilling metal, wood or plastic materials, turn the change ring in the direction of single arrow indicating. This sets the tool for rotation (drilling) only. Use a conventional wood or metal drill bit.



### Change lever

To change the speed, press the change lever and slide to L or H.

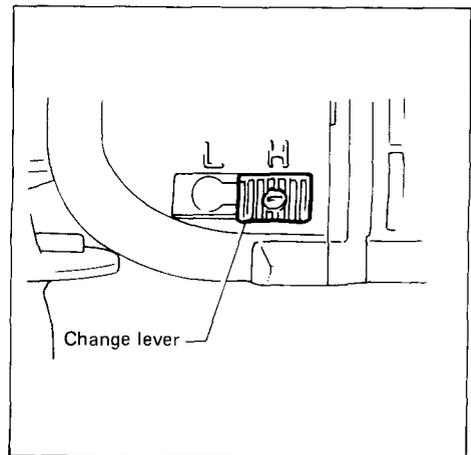
If the change lever doesn't slide easily, clank the motor slowly by turning the chuck in either direction, while sliding the change lever.

#### \* High speed

By setting the change lever on high (H), you get full rotation (2,300/min.) with heavy hammering (46,000/min.)

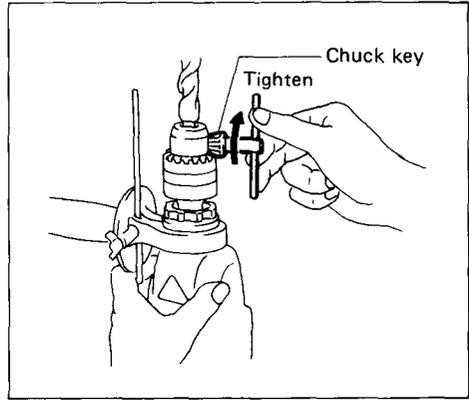
#### \* Low speed

By setting the change lever on low (L), a clean job is obtained when drilling hard materials such as tile or marble.



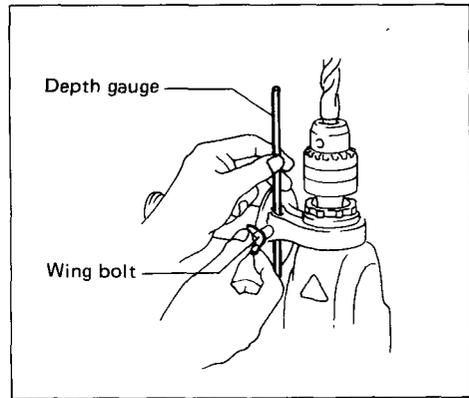
### Drill chuck

When installing a drill bit, insert it in the chuck hole as far as it will go. Then use the chuck key to fasten it in place, tightening evenly and in order at each of the three key holes.



### Adjustable depth rod

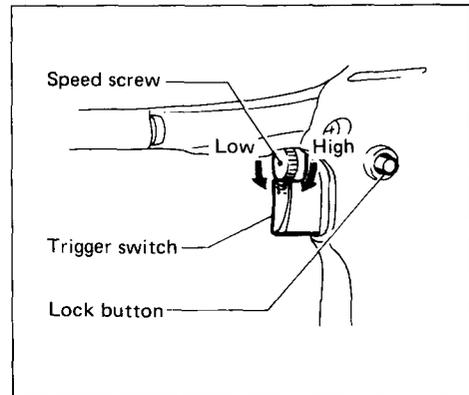
The adjustable depth rod is used to drill holes of uniform depth. Loosen the thumb bolt, set to desired position, then tighten the thumb bolt.



### Switch action

Speed screw is for continuous use at a desired speed.

The speed screw on the trigger can be used together with the lock button to obtain convenient continuous operation at any speed setting from 0 – 2,300 RPM (when setting change lever on high (HI)) and 0 – 900 RPM (when setting change lever on low (LO)). This screw is first screwed in (for higher speeds) or out (for lower speeds) for the desired setting. Then the trigger is pulled as far as it will go, and in this position the lock button is pushed in. The trigger can now be released, and the tool will run continuously at the speed it is set for. To stop from this lock position, simply pull the trigger and then release it.

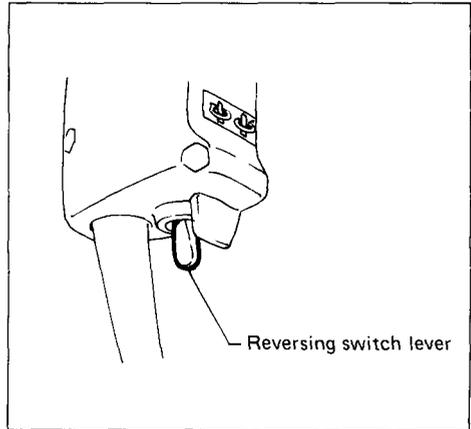


### Reversing switch

#### CAUTION:

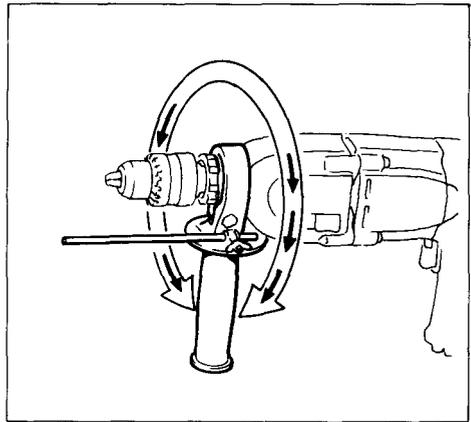
Never reverse directions (reversing switch) until the tool has come to a complete stop. Reversing before it stops may ruin the tool.

The reversing switch to change the direction of tool rotation is located in the heel of the handle. For normal use, the reversing switch lever should be in the  position. The tool starts when the trigger is pulled and stops when it is released. When changing the rotation direction, be sure the trigger switch is released (OFF) and change the rotation direction.



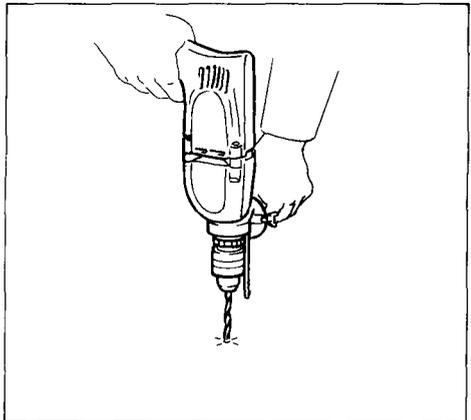
### Swivel-type grip assembly

This grip assembly swings around to either side to permit efficient work in any position. To reposition the grip, loosen the thumb screw and turn the grip to the desired position. Then tighten the thumb screw securely, or the grip can become loose and swing around dangerously.



### When holes become clogged

Do not apply more pressure when the hole becomes clogged with chips or particles. Instead, run the tool idle, then withdraw from the hole. By repeating this several times, the hole will be cleaned out completely.



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

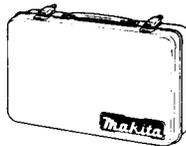
- **Chuck key S13**

Part No. 763411-7

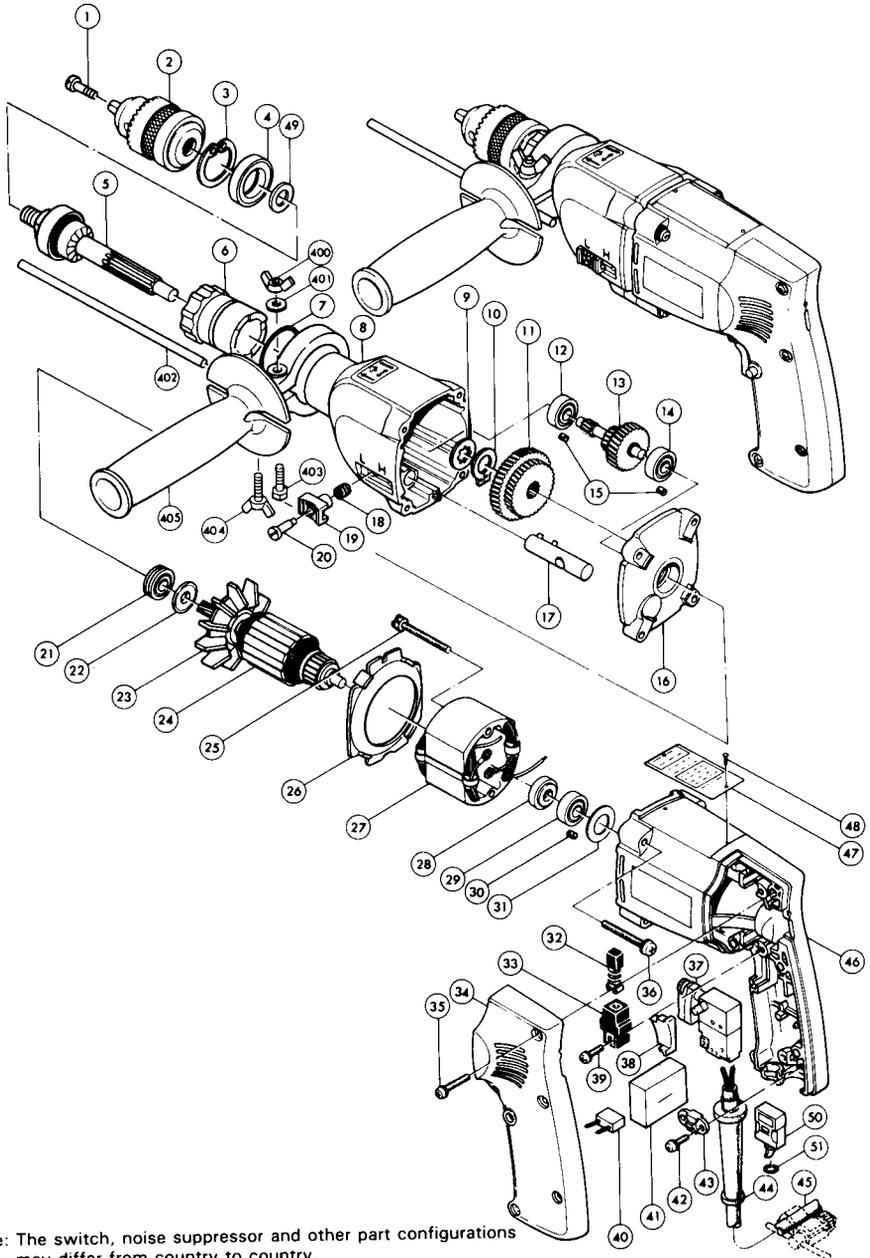


- **Steel carrying case**

Part No. 181014-9



## 2-SPEED HAMMER DRILL Model HP2010N



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

ITEM NO.	NO. USED	DESCRIPTION	ITEM NO.	NO. USED	DESCRIPTION
<b>MACHINE</b>			<b>MACHINE</b>		
1	1	(-) Screw M6x22	28	1	Insulation Washer
2	1	Drill Chuck S13	29	1	Ball Bearing 627LLB
3	1	Retaining Ring R-32	30	1	Rubber Pin 4
4	1	Dust Seal 20	31	1	F. Washer 14
5	1	Spindle (With Ball Bearing 6002LLB & Cam A)	32	2	Carbon Brush
6	1	Change Ring	33	2	Brush Holder
7	1	O Ring 34	34	1	Handle Cover
8	1	Gear Housing (With Cam B & Item 15)	35	4	P. H. Screw M4x22 (With Washer)
9	1	Plate	36	4	P. H. Screw M5x45 (With Washer)
10	1	Retaining Ring S-12	37	1	Switch
11	1	Gear 39-49	38	1	Switch Cover
12	1	Ball Bearing 627LLB	39	2	P. H. Screw M4x14 (With Washer)
13	1	Gear 9-19-41	40	1	Noise Suppressor
14	1	Ball Bearing 627LLB	41	1	Sponge Sheet
15	2	Rubber Pin 4	42	2	P. H. Screw M4x18 (With Washer)
16	1	Gear Housing Cover (With Plane Bearing 7.9 & Item 15)	43	1	Strain Relief
17	1	Shifter Rod	44	1	Cord Guard
18	1	Compression Spring 5	45	1	CORD ASSEMBLY (Assembled Cord, Plug & Cord Guard)
19	1	Change Lever	46	1	Motor Housing (With Item 30)
20	1	(-) Screw M4	47	1	Name Plate
21	1	Ball Bearing 807LLB	48	2	Rivet 0-5
22	1	Dust Seal 8	49	1	F. Washer 13
23	1	Fan 62	50	1	Reversing Switch
24	1	ARMATURE ASSEMBLY (Assembled Items 21 - 24, 28 & 29)	51	1	O Ring 11
25	2	H. Bolt M4x55 (With Washer)	400	1	W. Nut M6
26	1	Baffle Plate	401	1	F. Washer 6
27	1	FIELD ASSEMBLY	402	1	Depth Rod
			403	1	H. Bolt M6x40
			404	1	T. Screw M5x20
			405	1	Grip

Note: The switch, noise suppressor 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 CONSEQUENTIAL 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.

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