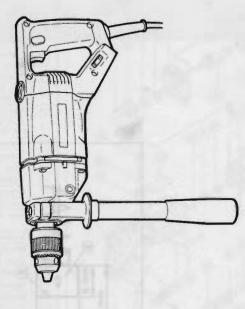
# HITACHI

Q024356

36015

DIAMOND CORE DRILL
DIAMANT-KERN BOHR MASCHINE
PERCEUSE POUR TREPAN DIAMANT
TRAPANO CON CORONA A PUNTE DIAMANTATE
DIAMANT DOOS BOOR
TALADRO PARA CORONA DIAMANTE

### DC 120V



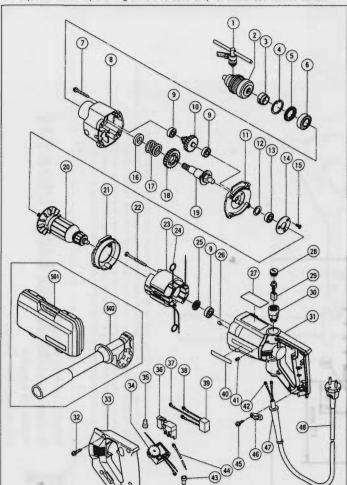
Read through carefully and understand these instructions before use. Diese Anleitung vor Benutzung des Werkzeugs sorgfältig durchlesen und verstehen. Lire solgneusement et bien assimiler ces instructions avant usage. Prima dell'uso leggere attentamente e comprendere queste istruzioni. Deze gebruiksaanwijzing s.v.p. voor gebruik zorgvuldig doorlezen. Leer cuidadosamente y comprender estas instrucciones antes del uso.



Handling instructions Bedienungsanleitung Mode d'emploi Istruzioni per l'uso Gebruiksaanwijzing Instrucciones de manejo

Hitachi Koki Co., Ltd.

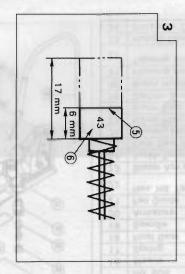
607 Code No. C99060871 N Printed in Japan The exploded assembly drawing should be used only for authorized service center.

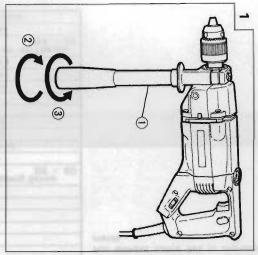


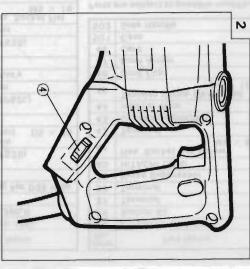
	Item No.	Part Name
	1	Chuck Wrench 10G
	2	Drill Chuck 13WLR
	3	Nut
н	4	Retaining Ring For D35 Hole
	5	Dust Seal
	6	Ball Bearing (6003VVCMPS2S)
	7	Tapping Screw (W/Sp. Washer) D5 × 35
	8	Gear Cover
	9	Ball Bearing (608VVMC2EPS2L)
1	10	Second Pinion
1	11	Inner Cover Ass'y
	12	Washer
	13	Ball Bearing (609VVMC2PS2S)
	14	Bearing Holder
1	15	Seal Lock Hex. Socket Flat Hd. Bolt M5 × 16
	16	Sleeve
	17	Spring
	18	Final Gear
	19	Spindle
+	20	Armature
4	21	Fan Guide
+	22	Hex. Hd. Tapping Screw D5 \ 60
+	23	Stator Ass'y
+	24	Brush Terminal
4	25	Dust Seal (A)
	26	Bearing Lock
	27	Name Plate
+	28	Brush Cap
Ш	29	Carbon Brush
	30	Brush Holder
	31	Housing Ass'y
+	32	Tapping Screw (W/Flange) D4 20
	33	Handle Cover
	34	Controller Circuit

Item No.	Part Name
35	Connector (50091)
36	Switch (C)
37	Terminal
38	Terminal
39	Noise Suppressor
40	HITACHI Label
41	Hex. Socket Set Screw M4 × 6
42	Terminal
43	Connector (50092)
44	Internal Wire
45	Tapping Screw (W/Flange) D4 × 16
46	Cord Clip
47	Cord Armor
48	Cord
501	Case
502	Side Handle

Parts are subject to possible modification without notice due to improvements.







6	9	<b>(4</b> )	(6)	2	Θ		6	<u>6</u>	<b>(4)</b>	(3)	(9)	Θ	
N. della spazzola di carbone	Limite d'usura	Selettore	Rimozione (allentare)	Fissaggio (stringere)	Impugnatura laterale	Italiano	No. of carbon brush	Wear limit	Dial	Fixing (Tighten)	Removing (Loosen)	Side handle	4
Nr. van koolborstel	Slijtagelimiet	Schijf	Verwijderen (Losdraaien)	Vastzetten (Aandraaien)	Zijhendel	Nederlands	Nr. der Kohlebürste	Verschleißgrenze	Skala	Abnehmen (Lösen)	Befestigen (Festziehen)	Seitengriff	
No. de la escobilla de carbón	Límite de desgasta	Dial	Extracción (Aflojado)	Fijación (apretado)	Mango lateral	Español	No. de balai en carbone	Limite d'usure	Cadran	Dépose (Desserrer)	Mise en place (Serrer)	Poignée latérale	

English

Deutsch

THANAID ANDRO CORONA DIAMANTE

DC 150A

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# GENERAL OPERATIONAL PRECAUTIONS

Keep work area clean. Cluttered areas and benches invite injuries.

Consider work area environment. Don't expose power tools to rain. Don't use power tools in damp Don't use tool in presence of flammable liquids or or wet locations. Keep work area well lit.

gases.
Power tools produce sparks during operation.
They also spark when switching ON/OFF. Never
They also spark when switching on the containing use power tools in dangerous sites containing lacquer, paint, benzine, thinner, gasoline, gases, adhesive agents, and other materials which are combustible or explosive.

Guard against electric shock. Prevent body contact with grounded surfaces. For example; pipes, radiators, ranges, refrigerator enclosures.

Keep children away. Do not let visitors contact tool or extension cord. All visitors should be kept away from work area.

رص . Store idle tools. When not in use, tools should be stored in dry and high or locked-up place-out of reach of children.

6. Don't force tool. It will do the job better and safer at the rate for which it was intended.

7. 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.

8. Dress properly. Do not 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.

9. Use eye protection. Also use face or dust mask if

10.

cutting operation is dusty.

Don't abuse cord. Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil and sharp edges.

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.

12. Don't overreach. Keep proper footing and balance

13. at all times.

Maintain tools with care. Keep tools sharp and safer performance. Follow have repaired by authorized service center. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean, and free from oil and instructions for lubricating and changing accessories. Inspect tool cords periodically and if damaged,

grease.

14. Disconnect tools. When not in use, before servicing. and when changing accessories, such as blades, bits, cutters.

Remove adjusting keys and wrenches. Form habit

15. of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
Avoid unintentional starting. Don't carry plugged in tool with finger on switch. Be sure switch is off

17. 16.

when plugging in.
Outdoor use extension cords. When tool is used outdoors, use only extension cords intended for use outdoors and so marked.
Stay alert. Watch what you are doing. Use common

18.

sense. Do not operate fool 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

> 20. properly repaired or replaced by an authorized service center unless otherwise indicated elsewhere in this handling instructions. Have defective switches replaced by authorized service center. Do not use tool if switch does not turn it on and off. Use the power tools only for applications specified

22. 21. in the Handling Instructions.
To avoid personal injury, use only the accessories or attachment recommended in these handling instructions or in the HITACHI catalog.

Let only the authorized service center do the repairing.

The manufacturer will not be responsible for any

damages or injuries caused by repair by unautho-rized persons or by mishandling of the tool.

To ensure the designed operational integrity of power tools, do not remove installed covers or

23. screws.

25. 24. Do not touch movable parts or accessories unless the power source has been disconnected.

26. ric annex may damage and crack plastic parts. Do not wipe them with such solvent. Wipe plastic parts with a soft cloth lightly dampened with soapy water. Use only genuine HITACHI replacement parts. Disassemble this tool only for replacement of working efficiency reduced by motor overload.

Do not wipe plastic parts with solvent. Solvents Use your tool at lower input than specified on the nameplate; otherwise, the finish may be spoiled and such as gasoline, thinner, benzine, carbon tetra-chloride, alcohol, ammonia and oil containing chlo-

27

29. carbon brushes.
Use the exploded assembly drawing on this handling instructions only for authorized servicing.

## DRILL PRECAUTIONS ON USING DIAMOND CORE

1. Before drilling into a wall, floor or ceiling, thoror conduits are buried inside. oughly confirm that no items such as electric cables

Always hold the body handle and side handle of the power tool firmly. Otherwise the counterforce prooperation. duced may result in inaccurate and even dangerous

### English

SPECIFICATIONS

13 mm 30 mm	Mild Steel Wood	Mild Steel Wood
600 - 1400/min	-	No-load speed
.M006		Input
(110V, 230V, 240V) √		Voltage (by areas)

- "1 Be sure to check the nameplate on product as it is subject to change by areas.

  "2 When using dry type diamond core bit (Excluding hard brick)

## STANDARD ACCESSORIES

- Standard accessories are subject to change without

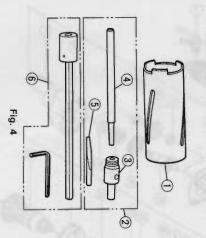
# OPTIONAL ACCESSORIES (sold separately)

## (1) Diamond Core Bits (Fig.4-(1))

	152	the part of the	91	100	48
100	127	-00	78	150	38
150	117	150	65	200	28
Selection of the select	107		52	300	22
Length (mm	Bit Dia. (mm)	Length (mm)	Bit Dia. (mm)	Length (mm)	Bit Dia. (mm)

# (2) Adapter Packs and Extension Rods

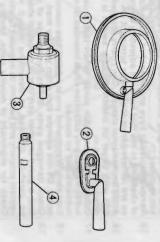
- 0 Adapter Pack (Fig. 4-2)
  Adapter for Dia. 38 ~ 152 mm Core Bits (Fig. 4-3) Pilot Spigot (Fig. 4-4)
- 0 Extention Rod (Length 250 mm) (Fig. 4-6) Ejector Drift (Fig. 4-5)



## (3) Dust Extraction Range

- O Dust Sucker-Large (Fig.5-(1))
  O Dust Sucker-Small (Fig. 5-(2))
  O Dust Swivel (Fig. 5-(3))
- O Extention Rod for Dust Swivel (Length 230mm)
- CAUTION:
- cleaner hose before turning When using the dust swivel, connect the vacuum on the main unit

Used to suck chips by connecting a vacuum cleaner



notice. Optional accessories are subject to change without

### APPLICATIONS

- Drilling various blocks and bricks products Boring holes in metals, wood and plastics.

## PRIOR TO OPERATION

to the power requirements specified on the product Ensure that the power source to be utilized conforms

### Power switch

If the plug is connected to a power receptacle while Extension cord the power switch is in the ON position, the power cause a serious accident. tool will start operating immediately, which could Ensure that the power switch is in the OFF position

ω

and rated capacity. The extension cord should source, use an extension cord of sufficient thickness When the work area is removed from the power kept as short as practicable. be

## Mounting the side handle

in Fig. 1 Mount the side handle in the main body, as shown

When mounting the side handle, loosen the handle direction to loosen it. the side handle and rotate it in counterclockwise Rotate the handle in clockwise direction to tighten

Before operation, securely tighten the side handle. mounting section of the gear cover and tighten it. press it to the proper position in the side handle and mount the side handle to the gear cover. Then The side handle can be secured in any position over

### Clamping

manner by inserting the toothed end in the chuck Insert the diamond core bit or drill bit as far as it will wrench into the three key holes. go into the open chuck. Clamp tightly in normal

# PRACTICAL HANDLING PROCEDURES

## Switch operation

Switching-on: Push the trigger. Switching-off: Release the trigger.

### CAUTION

Adjusting the operating speed side handle when switching on as there is danger Securely hold the handle of the main body and the that your hands may be turned by force of reaction.

2

### adjust the speed, turn the dial shown in Fig. 2. When speed (1400/min.). Adjust the speed according to to "5", the diamond core drill operates at maximum at minimum speed (600/min.). When the dial is set the dial is set to "1", the diamond core drill operates the material to be drilled and working efficiency. circuit which enables non-step speed control. The machine is equipped with an electric control

# CAUTION O When continuously operating the diamond core

- be overloaded and burn as a result. drill at low speed for a long time, the motor may
- When using a diamond core bit, use the low speed operation only for positioning

- Diamond Core drilling
   Place the diamond core bit in the drilling location.
   When drilling, always hold the tool squarely against
- ω Do not force the core bit, but allow the core bit to and reduce breakage. do the work. This will prolong the life of the core bit
- (4) Ensure that masonry dust/swarf produced during clutch/torque limiter wear and loss of segments accumulate will result in overheating and excessive drilling is regularly removed. Allowing dust/swarf to from the core bit.
- When entering or leaving a hole, ensure that the core bit is rotating.

(5) (6)

- If the core bit starts to vibrate and when the core bit sure immediately begins to break through the material, reduce pres-
- After use, store the core bit carefully in its box and remember that it is a diamond core bit.
- «Drilling method by using Pilot Spigot» For easy positioning, carry out the following steps

when using a diamond core bit.

- (1) Make a pilot hole at the center position of the material to be drilled with a 13 mm stone drill bit.
- Attach a pilot spigot to a diamond core bit.
   Align the pilot spigot to the pilot hole and begin the
- (4) When making the guide groove, temporarily stop the drilling operation to make a guide groove.
- (5) Align the diamond core bit with the quide groove and drilling operation and remove the pilot spigot.
- CAUTION start the drilling operation again.

 When drilling with a diamond core bit, there will be to hold the handle of the main body and the side a high force of reaction load to your hands. Make sure

## Safety-Release Clutch

gage from the output shaft. When this happens, the torque level is required, causing the motor to disen-Release Clutch. The clutch will slip when a certain chuck will stop turning. This tool is equipped with a positive type Safety-

### CAUTION

- O Immediately pull away the main body when the Safety-Release Clutch starts its operation.
- O Do not continue to operate the tool for more than two seconds while the clutch is slipping.
- O Do not let the Safety-Release Clutch activate too trequently.
- Drilling with a conventional drill bit
   Drilling in wood

metalworking drill bit when drilling a hole which is less than 6.5 mm in diameter. The usable drill bit Use a woodworking drill bit. However, use an diameter is maximum 30 mm less than 6.5 mm in diameter. The usable drill

(2)

Drilling in mild steel or plastics able drill bit diameter is minimum 1.2 mm and Use a conventional metalworking drill bit. The usmaximum 13 mm.

### 0 CAUTIONS Pressure:

and/or shortened service life of the drill. a damaged drill bit, decreased drilling pressure on the drill. Such action will only result in Drilling will NOT be accelerated by placing heavy efficiency,

- O Using a large diameter drill bit:
  The larger the drill bit diameter, the larger the reactive force on your arm. Be careful not to lose control of the drill because of this reactive force.
  To maintain firm control, establish a good foothold, hold the drill tightly with both hands, and ensure that the drill is vertical to the material being drilled.
- When drilling completely through the material: When the drill bit bores completely through the material, careless handling often results in broken drill bit or damage to the drill body itself due to the sudden movement of the drill.

Always be alert and ready to release pushing force when drilling through the material.

NOTE

# MAINTENANCE AND INSPECTION

 Inspecting the diamond core bit Continued use of a dull or damaged diamond core bit results in reduced drilling efficiency and may cause overloading of the motor. Replace the diamond core bit with a new one as soon as excessive

abrasion is noted.

Inspecting the mounting screws
 Regularly inspect all mounting screws and ensure
 that they are properly tightened. Should any of the
 screws be loose, retighten them immediately. Failure
 to do so could result in serious hazard.
 Maintenance of the motor

is required.

breakers).

The sound pressure level at the workplace can exceed 85 dB (A); in this case noise protection for the operator

- Maintenance of the motor

  The motor unit winding is the very "heart" of the power tool. Exercise due care to ensure the winding does not become damaged and/or wet with oil or water.
- 4. Inspecting the carbon brushes (Fig. 3)
  The motor employs carbon brushes which are consumable parts. Since an excessively worn carbon brush could result in motor trouble, replace the carbon brush with a new one which has the same carbon brush No. shown in Fig. 3 when it becomes worn to or near the "wear limit". In addition, always keep carbon brushes clean and ensure that they slide freely within the brush holders.

  5. Replacing a carbon brush
- Replacing a carbon brush

  Disassemble the brush cap with a minus-head screwdriver The carbon brush can the be easily removed.

Due to HITACHI's contin

Due to HITACHI's continuing program of research and development, the specifications herein are subject to change without prior notice.

6

### MPORTANT

Correct connection of the plug

The wires of the main lead are coloured in accordance with the following code:

Blue: – Neutral
Brown: – Live

As the colours of the wires in the main lead of this tool may not correspond with the coloured markings identifying the terminals in your plug proceed as follows: The wire coloured blue must be connected to the terminal marked with the letter N or coloured black. The wire coloured brown must be connected to the terminal marked with the letter L or coloured red. Neither core must be connected to the earth terminal.

This requirement is provided according to BRITISH STANDARD 2769: 1984.

Therefore, the letter code and colour code may not be applicable to other markets except The United Kingdom.

The noise emitted by this power tool is measured in accordance with IEC 59 (CO) 11, IEC 704, DIN 45 635 Part 21, NFS 31-031 (84/537/EEC for concrete