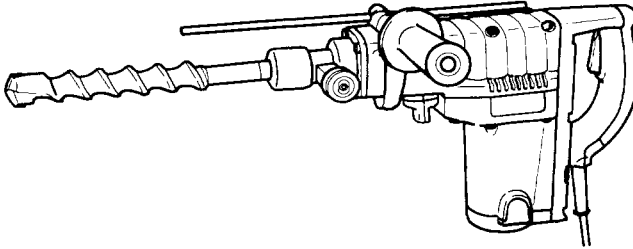


HITACHI

MODEL
MODÈLE
MODELO

DH 40FA

ROTARY HAMMER
MARTEAU ROTATIF
MARTILLO GIRATORIO



INSTRUCTION MANUAL AND SAFETY INSTRUCTIONS

⚠ WARNING

Improper and unsafe use of this power tool can result in death or serious bodily injury!

This manual contains important information about product safety. Please read and understand this manual before operating the power tool. Please keep this manual available for others before they use the power tool.

MODE D'EMPLOI ET INSTRUCTIONS DE SECURITE

⚠ AVERTISSEMENT

Une utilisation incorrecte et dangereuse de cet outil motorisé peut entraîner la mort ou de sérieuses blessures corporelles!

Ce mode d'emploi contient d'importantes informations à propos de la sécurité de ce produit. Prière de lire et de comprendre ce mode d'emploi avant d'utiliser l'outil motorisé. Garder ce mode d'emploi à la disponibilité des autres utilisateurs avant qu'ils utilisent l'outil motorisé.

MANUAL DE INSTRUCCIONES E INSTRUCCIONES DE SEGURIDAD

⚠ ADVERTENCIA

¡La utilización inapropiada e insegura de esta herramienta eléctrica puede resultar en lesiones serias o en la muerte!

Este manual contiene información importante sobre la seguridad del producto. Lea y comprenda este manual antes de utilizar la herramienta eléctrica. Guarde este manual para que puedan leerlo otras personas antes de que utilicen la herramienta eléctrica.



DOUBLE INSULATION
DOUBLE ISOLATION
AISLAMIENTO DOBLE

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IMPORTANT INFORMATION

Read and understand all of the operating instructions, safety precautions and warnings in the Instruction Manual before operating or maintaining this power tool.

Most accidents that result from power tool operation and maintenance are caused by the failure to observe basic safety rules or precautions. An accident can often be avoided by recognizing a potentially hazardous situation before it occurs, and by observing appropriate safety procedures.

Basic safety precautions are outlined in the "SAFETY" section of this Instruction Manual and in the sections which contain the operation and maintenance instructions.

Hazards that must be avoided to prevent bodily injury or machine damage are identified by WARNINGS on the power tool and in this Instruction Manual.

Never use this power tool in a manner that has not been specifically recommended by HITACHI, unless you first confirm that the planned use will be safe for you and others.

MEANINGS OF SIGNAL WORDS

WARNING indicates a potentially hazardous situations which, if ignored, could result in serious personal injury.

CAUTION indicates a hazardous situations which, if ignored, could result in moderate personal injury, or could cause machine damage.

NOTE emphasizes essential information.

SAFETY

GENERAL SAFETY RULES

⚠ 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

1. 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.

2. Electrical Safety

- (1) **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 electrician 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.
- (2) **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.
- (3) **Don't expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- (4) **Do not abuse the cord. Never use the cord to carry the tools or pull the plug from a receptacle. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately.** Damaged cords increase the risk of electric shock.
- (5) **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.

3. Personal Safety

- (1) **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.
- (2) **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.

- (3) **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.
- (4) **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.
- (5) **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in unexpected situations.
- (6) **Use safety equipment. Always wear protective glasses.** Dust mask, non-skid safety shoes, hard hat, or ear plugs must be used for appropriate conditions.

4. Tool Use and Care

- (1) **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.
- (2) **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.
- (3) **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.
- (4) **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.
- (5) **Store idle tools out of reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.
- (6) **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.
- (7) **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.
- (8) **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.

5. Service

- (1) **Tool service must be performed only by qualified repair personnel.** Service or maintenance performed by unqualified personnel could result in a risk of injury.
- (2) **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 Instruction may create a risk of electric shock or injury.

6. Never touch moving parts.

Never place your hands, fingers or other body parts near the tool's moving parts.

7. Never operate without all guards in place.

Never operate this tool without all guards or safety features in place and in proper working order. If maintenance or servicing requires the removal of a guard or safety feature, be sure to replace the guard or safety feature before resuming operation of the tool.

8. 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.

9. Never use a power tool for applications other than those specified.

Never use a power tool for applications other than those specified in the Instruction Manual.

10. Handle tool correctly.

Operate the tool according to the instructions provided herein. Do not drop or throw the tool. Never allow the tool to be operated by children, individuals unfamiliar with its operation or unauthorized personnel.

11. Keep all screws, bolts and covers tightly in place.

Keep all screws, bolts, and plates tightly mounted. Check their condition periodically.

12. Do not use power tools if the plastic housing or handle is cracked.

Cracks in the tool's housing or handle can lead to electric shock. Such tools should not be used until repaired.

13. Blades and accessories must be securely mounted to the tool.

Prevent potential injuries to yourself or others. Blades, cutting implements and accessories which have been mounted to the tool should be secure and tight.

14. Keep motor air vent clean.

The tool's motor air vent must be kept clean so that air can freely flow at all times. Check for dust build-up frequently.

15. Operate power tools at the rated voltage.

Operate the power tool at voltages specified on its nameplate.

If using the power tool at a higher voltage than the rated voltage, it will result in abnormally fast motor revolution and may damage the unit and the motor may burn out.

16. Never use a tool which is defective or operating abnormally.

If the tool appears to be operating unusually, making strange noises, or otherwise appears defective, stop using it immediately and arrange for repairs by a Hitachi authorized service center.

17. Never leave tool running unattended. Turn power off.

Don't leave tool until it comes to a complete stop.

18. Carefully handle power tools.


Should a power tool be dropped or struck against hard materials inadvertently, it may be deformed, cracked, or damaged.

19. Do not wipe plastic parts with solvent.

Solvents such as gasolie, thinner, benzine, carbon tetrachloride, and alcohol may damage and crack plastic parts. Do not wipe them with such solvents.

Wipe plastic parts with a soft cloth lightly dampened with soapy water and dry thoroughly.

SPECIFIC SAFETY RULES AND SYMBOLS

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. **Wear ear plugs when using the tool for extended periods.** Prolonged exposure to high intensity noise can cause hearing loss.
3. NEVER touch the tool bit with bare hands after operation.
4. NEVER wear gloves made of stuff liable to roll up such as cotton, wool, cloth or string, etc.
5. ALWAYS attach the side handle and securely grip the Rotary Hammer.
6. ALWAYS be careful with buried object such as an underground wiring. Touching these active wiring or electric cable with this tool, you may receive an electric shock.
Confirm if there are any buried object such as electric cable within the wall, floor or ceiling where you are going to operate here after.
7. Definitions for symbols used on this tool
 - V volts
 - Hz hertz
 - A amperes
 - no no load speed
 - W watt
 -  Class II Construction
 - /min revolutions per minute

DOUBLE INSULATION FOR SAFER OPERATION

To ensure safer operation of this power tool, HITACHI has adopted a double insulation design. "Double insulation" means that two physically separated insulation systems have been used to insulate the electrically conductive materials connected to the power supply from the outer frame handled by the operator. Therefore, either the symbol "Ⓜ" or the words and "Double insulation" appear on the power tool or on the nameplate.

Although this system has no external grounding, you must still follow the normal electrical safety precautions given in this Instruction Manual, including not using the power tool in wet environments.

To keep the double insulation system effective, follow these precautions:

- Only HITACHI AUTHORIZED SERVICE CENTER should disassemble or assemble this power tool, and only genuine HITACHI replacement parts should be installed.
- Clean the exterior of the power tool only with a soft cloth moistened with soapy water, and dry thoroughly.

Never use solvents, gasoline or thinners on plastic components; otherwise the plastic may dissolve.

**SAVE THESE INSTRUCTIONS
AND
MAKE THEM AVAILABLE TO
OTHER USERS OF THIS TOOL!**

FUNCTIONAL DESCRIPTION

NOTE:

The information contained in this Instruction Manual is designed to assist you in the safe operation and maintenance of the power tool.

Some illustrations in this Instruction Manual may show details or attachments that differ from those on your own power tool.

NAME OF PARTS

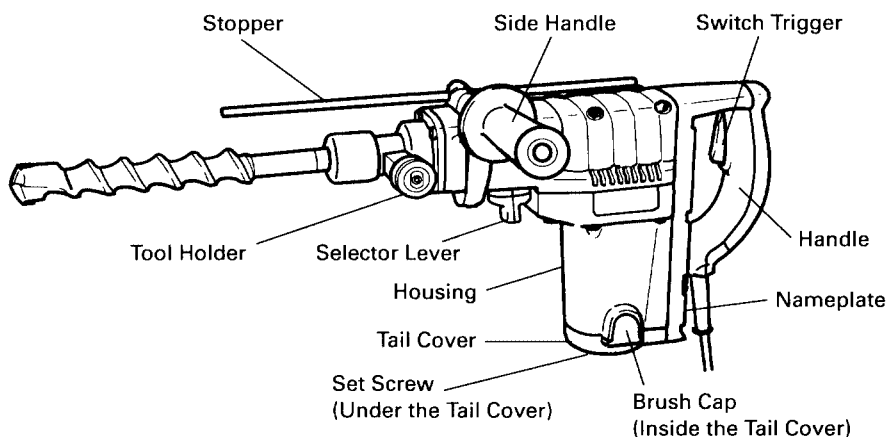


Fig. 1

SPECIFICATIONS

Motor	Single-Phase, Series Commutator Motor.
Power Source	Single-Phase, 115 V 60 Hz
Current	8.7 A
Capacity	Drill Bit: 1-9/16" (40 mm) Core Bit: 4-1/8" (105 mm)
No-Load Speed	400/min
Full-load Blow	2800 bpm
Weight	14.8 lbs (6.7 kg)

ASSEMBLY AND OPERATION

APPLICATIONS

Rotation and hammering function

- Drilling anchor holes
- Drilling holes in concrete

Hammering function only

- Crushing concrete, chipping, digging, and squaring
(by applying optional accessories)

PRIOR TO OPERATION

1. Power source

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

2. Power switch

Ensure that the switch is in the OFF position. If the plug is connected to a receptacle while the switch is in the ON position, the power tool will start operating immediately and can cause serious injury.

3. Extension cord

When the work area is far away from the power source, use an extension cord of sufficient thickness and rated capacity (refer to page 9). The extension cord should be kept as short as practicable.

⚠ WARNING: Damaged cord must be replaced or repaired.

4. Check the receptacle

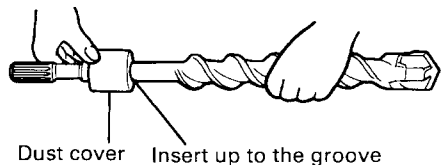
If the receptacle only loosely accepts the plug, the receptacle must be repaired. Contact a licensed electrician to make appropriate repairs. If such a faulty receptacle is used, it may cause overheating, resulting in a serious hazard.

5. Confirming condition of the environment:

Confirm that the work site is placed under appropriate conditions conforming to prescribed precautions.

6. How to install dust cover (Fig. 2)

Always install the dust cover on the drill bit or the taper shank adaptor. Insert the dust cover until it lies flush in the groove.



NOTE: For a thick drill bit, insert the dust cover from drill rear.

Fig. 2

7. How to install tool

⚠ CAUTION: For tools such as a drill bit and a bull point, use only Hitachi genuine parts.

- (1) Clean, then smear the tool shank with the grease provided in the green tube.
- (2) Pull the tool holder in the direction of arrow ① and rotate it in the direction of arrow ② (counterclockwise). Fully insert the tool shank into the hexagonal hole of the front cover. (Fig. 3)
- (3) Return the tool holder to fix the tool.

NOTE: Remove in the reverse order to installation.

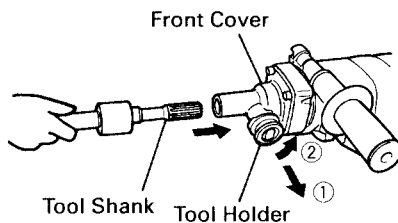


Fig. 3

HOW TO USE

1. How to drill holes (Fig. 4)

- (1) Pull the switch trigger after applying the drill bit tip to the drilling position.
- (2) It is unnecessary to forcibly press the rotary hammer main body. It is sufficient to slightly press the rotary hammer to an extent that chips are freely discharged.

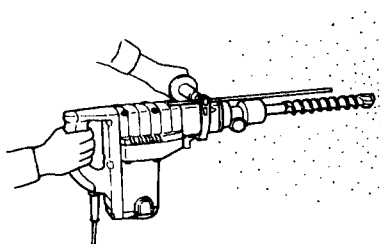


Fig. 4

⚠ CAUTION:

Although this machine is equipped with a safety clutch, if the drill bit becomes bound in concrete or other material, the resultant stoppage of the drill bit could cause the machine body to turn in reaction. Ensure that the main handle and side handle are gripped firmly during operation.

2. How to chisel or crush (Fig. 5)

By applying the tool tip to the chiseling or crushing position, operate the rotary hammer by utilizing its empty weight. Forcible pressing or thrusting is unnecessary.

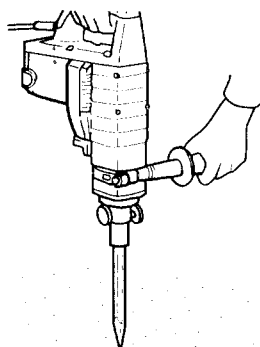


Fig. 5

3. How to select rotation-hammering and hammering.

- (1) Rotation-hammering (Fig. 6)
Rotate the selector lever clockwise so that the ▲ mark on the selector lever is aligned with the ▲ mark on the side of the **IT** mark on the under cover.
- (2) Hammering (Fig. 7)
Rotate the selector lever counter-clockwise so that the ▲ mark on the selector lever is aligned with the ▲ mark on the side of the **T** mark on the under cover.

CAUTION:

- Turning the selector lever during motor rotation will rotate the tool accidentally. The selector lever should only be turned when the motor is stopped.

4. Install the stopper (Fig. 8)

- (1) Loosen the side handle and insert the straight portion of the stopper into the handle bolt hole from the front cover.
- (2) Loosen the side handle, move the stopper to the specified position and rotate the grip of the side handle clockwise to fix the stopper.

5. Warming up (Fig. 9)

The grease lubrication system in this unit may require warming up in cold regions.
Position the end of the bit so makes contact with the concrete, turn on the switch and perform the warming up operation. Make sure that a hitting sound is produced and then use the unit.

CAUTION:

When the warming up operation is performed, hold the side handle and the main body securely with both hands to maintain a secure grip and be careful not to twist your body by the jammed drill bit.

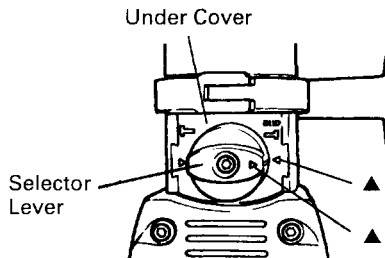


Fig. 6

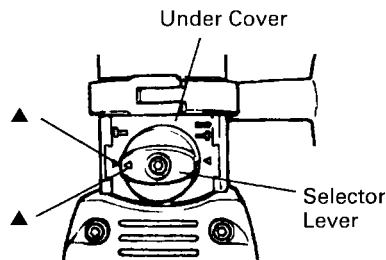


Fig. 7

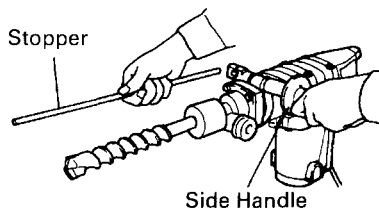


Fig. 8

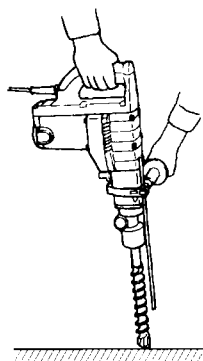


Fig. 9

6. How to use the drill bit (taper shank) and the taper shank adaptor.

- (1) Install drill bit with taper shank in the taper shank adaptor.
- (2) Turn the power on and drill a base hole.
- (3) After cleaning out dust with a syringe, attach the plug to the anchor tip and drive in the anchor with a manual hammer.
- (4) To remove the drill bit with taper shank, insert a cotter into the slot of the taper shank adaptor, place supports under the rotary hammer and tap the cotter with a manual hammer. (Fig. 11)

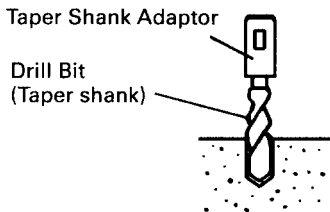


Fig. 10

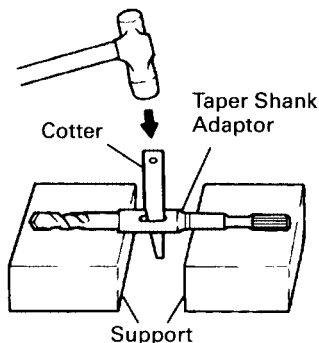


Fig. 11

HOW TO USE THE CORE BIT

When boring penetrating large hole use the core bit. At that time use with the center pin and the core bit shank provided as optional accessories.

1. Mounting

⚠ CAUTION:

Be sure to turn power OFF and disconnect the plug from the receptacle.

- (1) Mount the core bit to the core bit shank. (Fig. 12)
Lubricate the thread of the core bit shank to facilitate disassembly.
- (2) Mount the core bit shank to the rotary hammer. (Fig. 13)
- (3) Insert the center pin into the guide plate until it stops.
- (4) Engage the guide plate with the core bit, and turn the guide plate to left or right so that it does not fall even if it faces downward. (Fig. 14)

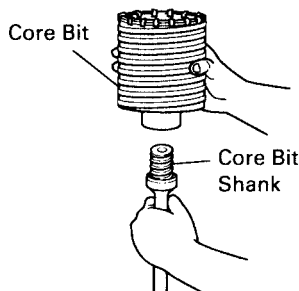


Fig. 12

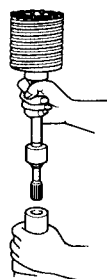


Fig. 13

2. How to bore (Fig. 15)

- (1) Connect the plug to the receptacle.
- (2) A spring is installed in the center pin. Push it lightly to the wall or the floor straight. Connect all over the surface of the core bit tip and start operating.
- (3) When boring about 3/16" (5 mm) in depth the position of the hole will establish. Bore after that removing the center pin and the guide plate from core bit.
- (4) Application of excessive force will not only expedite the work, but will deteriorate the tip edge of the drill bit, resulting in reduced service life of the rotary hammer.

⚠ CAUTION:

When removing the center pin and the guide plate, turn OFF the switch and disconnect the plug from the receptacle.

3. Dismounting (Fig. 16)

Remove the core bit shank from the rotary hammer and strike the head of the core bit shank strongly two or three times with a manual hammer holding the core bit, then the thread becomes loose and the core bit can be removed.

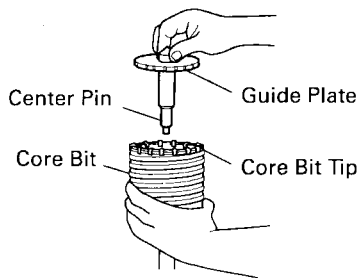


Fig. 14

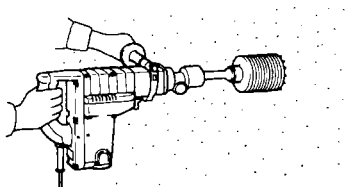


Fig. 15

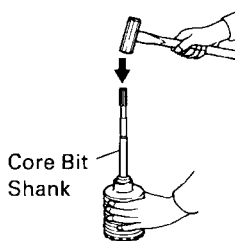


Fig. 16

MAINTENANCE AND INSPECTION

⚠ WARNING: Be sure to switch power OFF and disconnect the plug from the receptacle during maintenance and inspection.

1. Inspecting the drill bits

Since use of a dull tool will cause motor malfunctioning and degraded efficiency, replace the drill bit with a new one or resharpening without delay when abrasion is noted.

2. 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.

⚠ WARNING: Using this rotary hammer with loosen screws is extremely dangerous.

3. 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. 17)

The motor employs carbon brushes which are consumable parts. When they become worn to or near "wear limit", it could result in motor trouble. When an auto-stop carbon brush is equipped, the motor will stop automatically. At that time, replace both carbon brushes with new ones which have the same carbon brush Nos. shown in the figure.

In addition, always keep carbon brushes clean and ensure that they slide freely within the brush holders.

⚠ CAUTION: Using this rotary hammer with a carbon brush which is worn in excess of the wear limit will damage the motor.

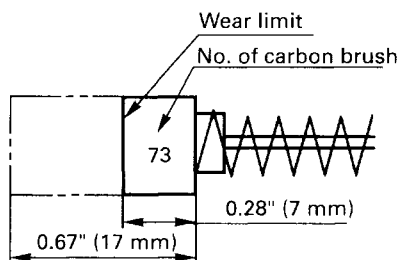


Fig. 17

NOTE: Use HITACHI carbon brush No.73 indicated in Fig. 17

○ Replacing carbon brushes:

(For parts name, refer to Fig. 1)

Loosen the two set screws and remove the tail cover. Remove the brush caps and carbon brushes. After replacing the carbon brushes, tighten the brush caps securely and to install the tail cover with securely tightening two set screws.

5. How to replace grease

This machine is full air-tight construction to protect against dust and to prevent lubricant leakage. Therefore, the machine can be used without lubrication for long periods. Replace the grease as described below.

○ Grease replacement period

After purchase, replace grease after every 6 months of usage. Ask for grease replacement at the nearest HITACHI Authorized Service Center. Proceed for replacement of grease.

○ Grease replenishment

⚠ CAUTION: Before replenishing the grease, turn the power off and pull out the power plug.

(1) Remove the crank case cover and wipe off the grease inside.

(2) Apply 0.7 oz (20 g) of HITACHI Electric Hammer Grease A (standard accessory, contained in tube) to the crank case.

As the tube contains 1 oz (30 g) of grease, supply 2/3 of the contained grease.

(3) After replenishing the grease, install the crank case securely.

NOTE: The HITACHI Electric Hammer Grease A is of the lower viscosity type. When the supplied grease tube is consumed, purchase from a HITACHI Authorized Service Center.

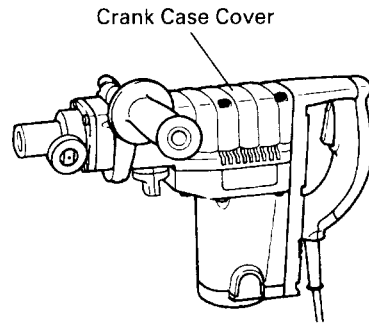


Fig. 18

6. Service and repairs

All quality power tools will eventually require servicing or replacement of parts because of wear from normal use. To assure that only authorized replacement parts will be used, all service and repairs must be performed by a HITACHI AUTHORIZED SERVICE CENTER, ONLY.

ACCESSORIES

⚠ WARNING: Accessories for this power tool are mentioned in this Instruction Manual.

The use of any other attachment or accessory can be dangerous and could cause injury or mechanical damage.

NOTE:

Accessories are subject to change without any obligation on the part of the HITACHI.

STANDARD ACCESSORIES

(1) Case (Molded plastic) (Code No. 313097)	1
(2) Side Handle (Code No. 313078)	1
(3) Stopper (Code No. 971786)	1
(4) Allen Wrench 4 mm (Code No. 944458)	1
(5) Allen Wrench 5 mm (Code No. 944459)	1
(6) Hammer Grease A (Code No. 981840)	1
(7) Dust Cover (Code No. 993245)	1

OPTIONAL ACCESSORIES.....sold separately

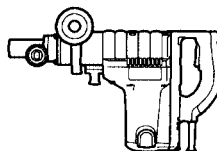
For accessories in detail please call HITACHI AT 1-800-59-TOOLS

1. Through-hole drilling (Rotation + Hammering)



(1) Drill bit (Spline shank)

+



External dia.	Overall length	Code No.
1/2" (12.7 mm)	16" (400 mm)	985374
1" (25.4 mm)		985375
1-1/2" (38.1 mm)		985376

2. Anchor hole drilling (Rotation + Hammering)



(3) Cotter (Code No. 944477)

+



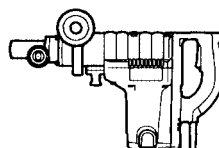
(1) Drill bit
(Taper shank)

+



(2) Taper shank adaptor
(Spline shank)

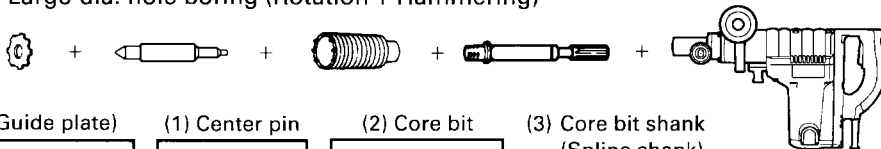
+



(2) Taper shank adaptor

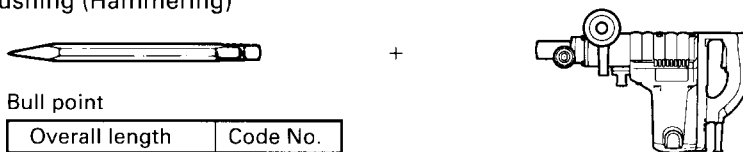
A-taper	Taper shank adaptor formed A-taper or B-taper is provided as optional accessory, but drill bit for it is not provided	Code No. 985377
B-taper		Code No. 985378

3. Large-dia. hole boring (Rotation + Hammering)



(Guide plate)	(1) Center pin	(2) Core bit	(3) Core bit shank (Spline shank)
Code No.	Code No.	External dia.	
985388	955165	2" (50 mm)	
955169		4-1/8" (105 mm)	

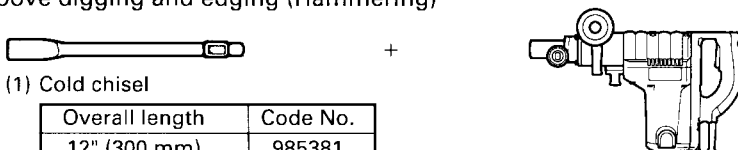
4. Crushing (Hammering)



(1) Bull point

Overall length	Code No.
12" (300 mm)	985383

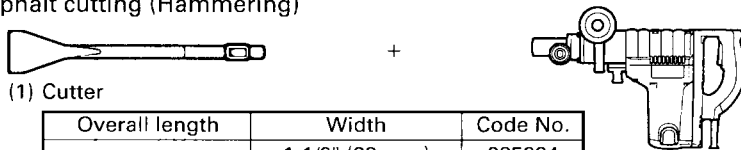
5. Groove digging and edging (Hammering)



(1) Cold chisel

Overall length	Code No.
12" (300 mm)	985381
18" (460 mm)	985382

6. Asphalt cutting (Hammering)



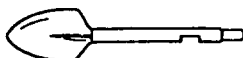
(1) Cutter

Overall length	Width	Code No.
12" (300 mm)	1-1/2" (38 mm)	985384
	2" (50 mm)	985385

7. Digging

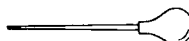
(1) Scoop

Code No. 985386



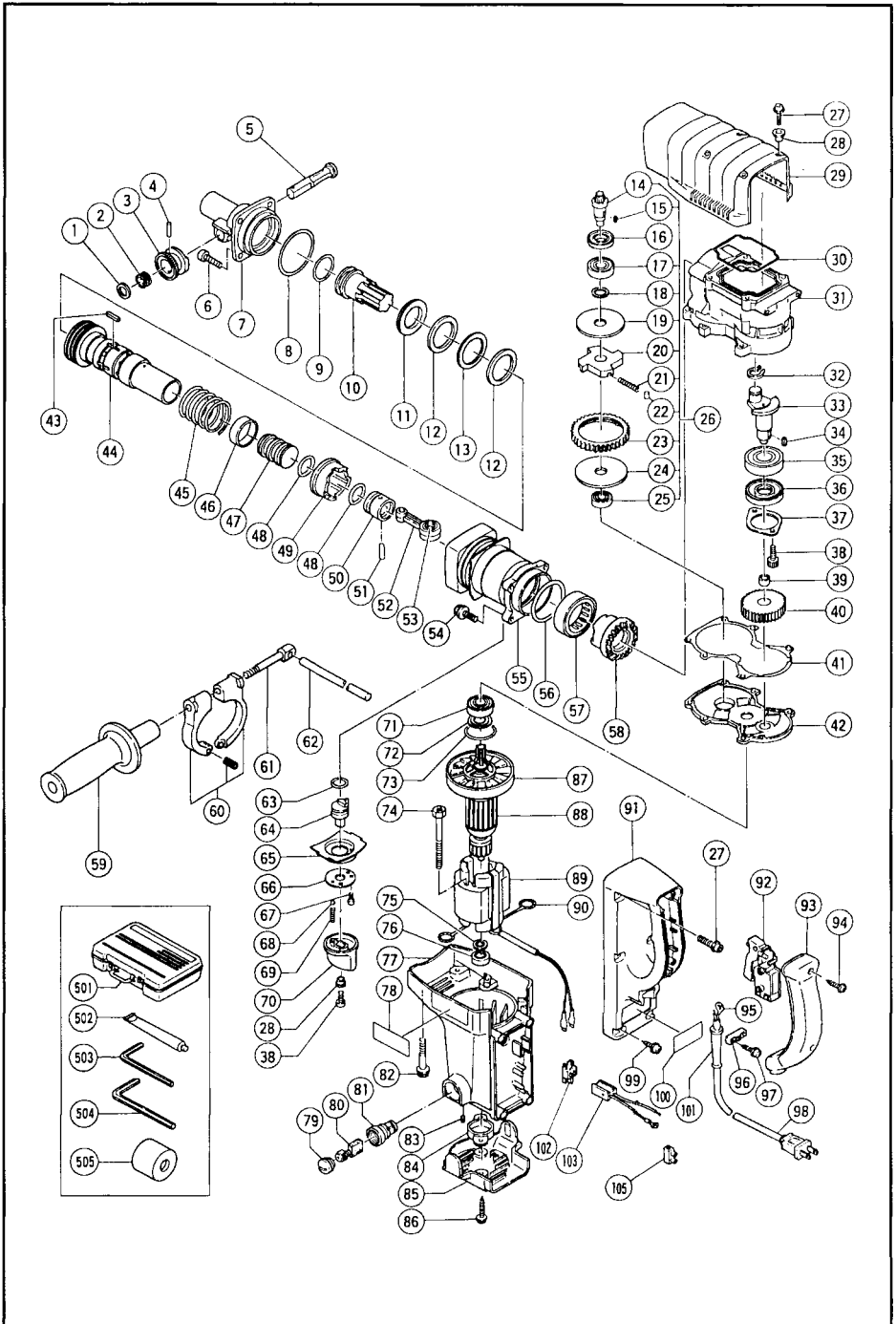
8. Syringe (for chip removal)

Code No. 944575



NOTE:

Specifications are subject to change without any obligation on the part of the HITACHI



Item No.	Part Name
1	Stop Washer
2	Stopper Spring
3	Knob (A)
4	Needle Roller D4 × 20
5	Stop Lever
6	Nylock High Tension Bolt M7 × 25
7	Front Cover
8	O-Ring (1AS-60)
9	O-Ring
10	Second Hammer
11	Damper Washer
12	Damper
13	Washer
14	Bevel Pinion
15	Feather Key 3 × 3 × 8
16	Oil Seal (A)
17	Ball Bearing (6002DDUCMPS2S)
18	Washer
19	Washer (A)
20	Gear Holder
21	Spring (C)
22	Needle Pin D6 × 6
23	Second Gear
24	Spacer
25	Ball Bearing (629VVMC2EPS2L)
26	Slip Clutch Ass'y
27	Nylock Bolt (W/Flange) M5 × 16
28	Distance Piece (B)
29	Crank Case Cover Ass'y
30	Rubber Seal
31	Crank Case
32	Retaining Ring for D12 Shaft
33	Crank Shaft
34	Feather Key 3 × 3 × 10
35	Ball Bearing (6204VVMCPS2S)
36	Oil Seal (B)
37	Bearing Cover
38	Nylock Hex. Socket Hd. Bdt M5 × 6
39	Needle Bearing (M661)

Item No.	Part Name
40	First Gear
41	Seal Packing
42	Gear Cover
43	Feather Key 3 × 3 × 20
44	Cylinder
45	Clutch Spring
46	Valve Band
47	Striker
48	O-Ring
49	Clutch
50	Piston
51	Piston Pin
52	Connecting Rod Ass'y
53	Needle Bearing (NSK AJ50 1203)
54	Nylock Bolt (W/Flange) M6 × 25
55	Cylinder Case
56	O-Ring (1AS-60)
57	Needle Bearing (B)(NTN HMK4520)
58	Bevel Gear
59	Side Handle
60	Handle Hdder
61	Handle Bolt
62	Stopper Rod
63	O-Ring(P-16)
64	Lever Shaft
65	Under Cover
66	Shaft Cover
67	Nylock Hex. Socket Hd. Bolt M4 × 12
68	Steel Ball D3.97
69	Spring (B)
70	Lever
71	Ball Bearing (6202VVMCPS2S)
72	Dust Washer (B)
73	O-Ring
74	Hex. Hd. Tapping Screw D5 × 55
75	Dust Washer (A)
76	Ball Bearing (629VVMC2EPS2L)
77	Housing Ass'y
78	HITACHI Label

Item No.	Part Name
79	Brush Cap
80	Carbon Brush
81	Brush Holder
82	Nylock Bolt (W/Flange) M5 × 25
83	Hex. Socket Set Screw M5 × 8
84	Bearing Holder
85	Tail Cover
86	Tapping Screw (W/Flange) D5 × 25
87	Fan
88	Armature Ass'y
89	Stator Ass'y
90	Brush Terminal
91	Handle
92	Switch (C)
93	Handle Cover
94A	Tapping Screw (W/Flange) D4 × 20
95	Terminal
96	Cord Clip
97	Tapping Screw (W/Flange) D4 × 16
98	Cord
99	Tapping Screw (W/Flange) D5 × 25
100	Nameplate
101	Cord Armor
102	Plug (A)
103	Plug (B)
105	Pillar Terminal
501	Case (Plastic)
502	Grease (A)
503	Allen Wrench 4MM
504	Allen Wrench 5MM
505	Dust Cover

Parts are subject to change without any obligation on the part of the HITACHI due to improvement.