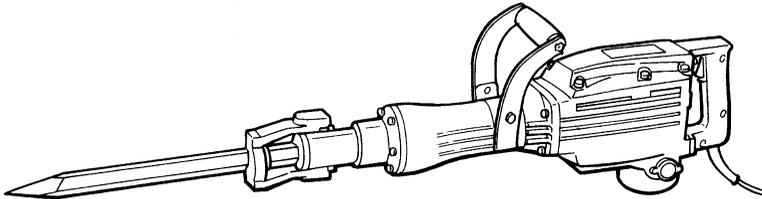


# HITACHI

## DEMOLITION HAMMER MODEL H 65

### INSTRUCTION MANUAL



**Note:**

Before using this HITACHI Demolition Hammer, carefully read through this INSTRUCTION MANUAL to ensure efficient, safe operation. It is recommended that this INSTRUCTION MANUAL be kept readily available as an important reference when using this power tool.

We sincerely thank you for selecting a HITACHI POWER TOOL. To operate this power tool safely and efficiently, please read this INSTRUCTION MANUAL carefully to get a good understanding of the precautions in operation, capacity of the power tool, use and the like.

## **IMPORTANT INFORMATION: SAFETY RULES FOR THE POWER TOOL**

**WARNING:** When using the power tool, following basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury.

### **READ ALL INSTRUCTIONS**

- 1. KEEP WORK AREA CLEAN.** Cluttered areas and benches invite injuries.
- 2. CONSIDER WORK AREA ENVIRONMENT.**
  - Don't expose power tools to rain.
  - Don't use power tools in damp or wet locations.
  - Keep work area well lit.
  - Don't use the power tool in presence of flammable liquids or gases.
  - Power tools produce sparks during operation. They also spark when switching ON/OFF. Never use power tools in dangerous sites containing lacquer, paint, benzine, thinner, gasoline, gases, adhesive agents, and other materials which are combustible or explosive.
- 3. GUARD AGAINST ELECTRIC SHOCK.** Prevent body contact with grounded surfaces. For example: pipes, radiators, ranges refrigerator enclosures.
- 4. KEEP VISITORS OR CHILDREN AWAY.** Do not let visitors or children contact the power tool or extension cord. All visitors or children should be kept away from work area.
- 5. STORE IDLE POWER TOOLS.** When not in use, power tools should be stored in dry, and high or locked-up place-out of reach of children.
- 6. DON'T FORCE THE POWER TOOL.** It will do the job better and safer at the rate for which it was intended.
- 7. USE RIGHT POWER TOOLS.** Don't force a small power tool or attachment to do the job of a heavy-duty tool. Don't use the power 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 clothes or accessories. 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 SAFETY GLASSES.** All persons in the area where power tools are being operated should also wear safety eye protectors, and face or dust masks if cutting operation is dusty.
- 10. DON'T ABUSE CORD.** Never carry power tools by cord or yank the cord to disconnect the power tool from receptacle. Keep the cord from heat, oil and sharp edges.
- 11. DON'T OVERREACH.** Keep proper footing and balance at all times.
- 12. MAINTAIN POWER TOOLS WITH CARE.** Keep power 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 the authorized service center.

- Inspect extension cords periodically and replace them if damaged.  
Keep handles dry, clean, and free from oil and grease.
13. **DISCONNECT POWER 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 the power tool before turning it on.
  15. **AVOID UNINTENTIONAL STARTING.** Don't carry a plugged-in the power tool with finger on switch. Be sure switch is off when plugging in.
  16. **OUTDOOR USE EXTENSION CORDS.** When the power tool is used outdoors, use only extension cords intended for use outdoors and so marked.
  17. **STAY ALERT.** Watch what you are doing. Use common sense. Do not operate the power tool when you are tired.
  18. **CHECK DAMAGED PARTS.** Before use of the power tool, a guard or other part should be carefully checked to determine that it will operate properly and perform its intended function. Check the 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 an authorized service center.  
Do not use the power tool if switch does not turn it on and off.
  19. **AVOID USING A POWER TOOL FOR APPLICATIONS OTHER THAN THOSE SPECIFIED.** Never use the power tool for applications other than those specified in this instruction manual.
  20. **ENSURE SAFE OPERATION THROUGH CORRECT HANDLING.** Secure safe operation through correct handling by observing the instructions described herein.  
Do not employ accessories other than those specified herein; otherwise, a hazardous condition may be created.  
Never allow the power tool to be used by persons not familiar with correct handling (such as children) or by those who are not familiar with the power tool.
  21. **CONFIRM THAT NO ITEMS SUCH AS AN ELECTRIC CABLE OR CONDUIT ARE BURIED INSIDE.** In places where electric wiring may be hidden behind a wall, floor, ceiling, etc. do not hold or contact any metal parts of the power tool. In such cases, metal parts could become electrically live and present a serious shock hazard.
  22. **KEEP THE RIGHT PARTS IN THE RIGHT POSITIONS.** Do not remove covers and screws which have been factory-mounted. They perform important respective roles. Keep them in the original positions.
  23. **SECURELY MOUNT ACCESSORIES AND BLADES TO THE POWER TOOL MAIN BODY.** Extra care must be taken when using the power tool on elevated location (such as a roof ladder, scaffold, or the like) to prevent injury to someone underneath in the event the power tool and/or accessory should drop.
  24. **ALWAYS KEEP THE MOTOR AIR VENT FULLY OPENED.** A constantly open motor air vent is necessary to allow air to come in and out for cooling the motor. Do not allow it to become clogged up, even if dust is blown through it.
  25. **OPERATE THE POWER TOOL AT THE RATED VOLTAGE.** Operate the power tool at voltages specified on its nameplate.
  26. **NEVER TOUCH THE MOVING PARTS.** Never touch the moving parts such as blades, bits, cutters and others.

27. **STOP OPERATION IMMEDIATELY IF ANY ABNORMALITY IS DETECTED.** Should the power tool be detected as out of order or should other abnormalities be observed during operation, stop using the power tool immediately.
28. **NEVER LEAVE THE POWER TOOL RUNNING UNATTENDED. TURN POWER OFF.** Don't leave the power tool until it comes to a complete stop.
29. **CAREFULLY HANDLE THE POWER TOOL.** Should the power tool be dropped or struck against hard materials inadvertently, it may be deformed, cracked, or damaged.
30. **DO NOT WIPE PLASTIC PARTS WITH SOLVENT.** Solvents such as gasoline, thinner, benzene, carbon tetrachloride, and alcohol damage and crack plastic parts. Do not wipe them with such solvents. Wipe plastic parts with a soft cloth lightly dampened with soapy water.
31. **WHEN REPLACING A COMPONENT PART, ADOPT THE SAME TYPE.** When replacing a component part with a new one, adopt the same type of new part. Also, never attempt to repair the power tool yourself. Bring it to an authorized service center for repair.

### **WARNING:**

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints,
- Crystalline silica from bricks and cement and other masonry products, and
- Arsenic and chromium from chemically-treated lumber.

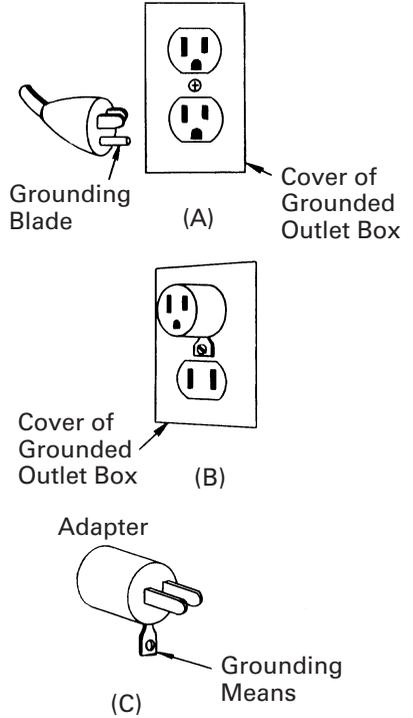
Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

## GROUNDING INSTRUCTIONS

This power tool should be grounded while in use to protect the operator from electric shock. The power tool is equipped with a three-conductor cord and three-prong grounding type plug to fit the proper grounding type receptacle. The green (or green and yellow) conductor in the cord is the grounding wire. Never connect the green (or green and yellow) wire to a live terminal. If your unit is for use on less than 150 volts, it has a plug that looks like that shown in sketch (A) in Figure on the right. An adapter (see sketches (B) and (C)) is available for connecting sketch (A) type plugs to two-prong receptacles. The green-colored rigid ear, lug, or the like, extending from the adapter must be connected to a permanent ground, such as a properly grounded outlet box.

### WARNING:

The grounding adaptor, sketch (C), is prohibited in Canada by Canadian Electrical Code Part 1. Therefore, the instructions for its use are not applicable in Canada.



## EXTENSION CORD

Use only three-wire extension cords that have three-prong grounding-type plugs and three-pole receptacles that accept the power tool's plug. Replace or repair damaged 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 the power tool will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Table below 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.

MINIMUM GAGE FOR CORD SETS

		Total Length of Cord in Feet (Meter)			
		0 – 25 (0 – 7.6)	26 – 50 (7.9 – 15.2)	51 – 100 (15.5 – 30.5)	101 – 150 (30.8 – 45.7)
Ampere More Than	Rating 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	

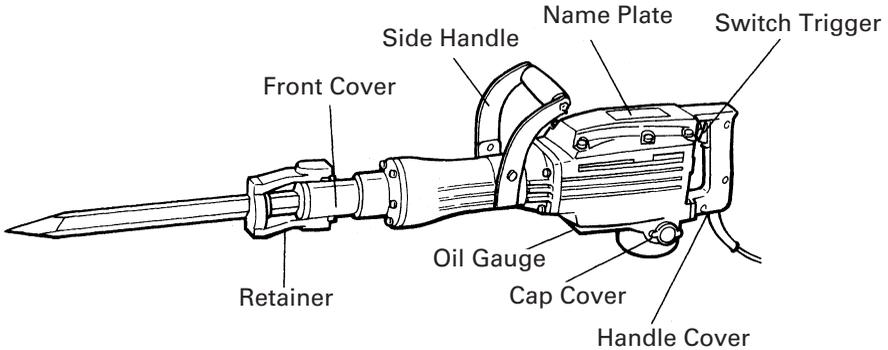
## PARTICULAR PRECAUTIONS ON DEMOLITION HAMMER

In addition to the precautions mentioned above, following particular precautions for this demolition hammer should be followed.

1. Use earplugs to keep your ears noise-free while working.
2. Wear protective shoes to protect your feet.
3. Properly set the bit holder.
4. Always hold the body handle and side handle of the power tool firmly. Otherwise the counterforce produced may result in inaccurate and even dangerous operation.
5. Since the bit becomes very hot during operation, do not touch it because you are burnt.
6. At the start of work, confirm the oil supply and screw tightening.
7. When working at a highly elevated location, pay attention to articles and persons below.

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

# NAME OF PARTS



**Fig. 1**

# SPECIFICATIONS

Motor	Single-Phase, Series Commutator Motor
Power Source	Single-Phase, 115V AC, 60 Hz
Current	11.4A
Full-Load Impact Rate:	1,400/min
Weight	39.7 lbs (18 kg)

# ACCESSORIES

## CAUTION:

Only following genuine accessories for this power tool should be used. The use of any other attachment or accessory is not recommended because it may cause hazard including bodily injury.

# STANDARD ACCESSORIES

- (1) Steel Case ..... 1
- (2) Bull Point (Code No. 985230) ..... 1
- (3) Oil Feeder (Code No. 931848) ..... 1
- (4) Hexagon Bar Wrench for M8 (Code No. 872422) ..... 1
- (5) Wrench (Code No. 971109) ..... 1

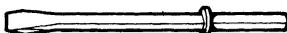
# OPTIONAL ACCESSORIES...sold separately

## 1. Bull point



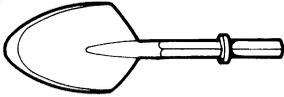
Overall length: 20-1/2"(520 mm)  
Code No.: 985230

## 2. Cold chisel



Overall length: 20-1/2" (520 mm)  
Code No.: 985231

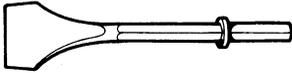
### 3. Scoop



Overall length: 21-1/2" (546 mm)

Code No.: 985233

### 4. Cutter



Overall length: 20-1/2" (520 mm)

Width: 3" (75 mm)

Code No.: 985232

### 5. Electric Hammer Oil

Capacity: 1 liter

Code No.: 955009

## APPLICATION

This demolition hammer should be applied to breaking concrete, chipping off concrete, grooving, bar cutting, and driving piles in installation of piping and wiring, sanitary facility installation, machinery installation, water supply and drainage work, interior jobs, harbor facilities and other civil engineering work, etc.

## PRIOR TO OPERATION

#### 1. Power source

Ensure that the power source to be utilized conforms to the power requirements specified on the name plate of this demolition hammer.

#### 2. Power switch

Ensure that the power switch is in the OFF position. If the plug is connected to a power receptacle while the power switch is in the ON position, this demolition hammer will start operating immediately, inviting serious accident.

#### 3. Extension cord

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

#### 4. Confirm the power receptacle

If the power receptacle loosely accepts the plug, the receptacle must be repaired. Contact the nearest authorized service center for repair service.

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 neat, clean conditions conforming to prescribed precautions.

#### 6. Feeding oil (Refer to the paragraph on oil feeding at page 9 below.)

Prior to using this demolition hammer, remove the oil gauge and do not fail to fill the oil tank with the provided oil. (Although the oil tank is built in, it contains only a small quantity of oil when shipped from the HITACHI Works.)

#### 7. Mounting an accessory, such as a bull point, a cutter, etc..

(1) With the retainer directed backward, insert the accessory shank portion into the hole on the front cover. (Fig. 2)

(2) Swing the retainer back into place so that it engages the accessory shank portion and prevents accessories from coming out of front cover. (Fig. 3)

**NOTE:**

Use a manual hammer to open/close the retainer as it is too heavy to move by hand.

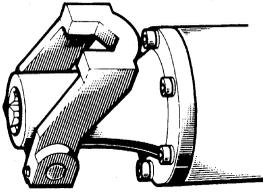


Fig. 2

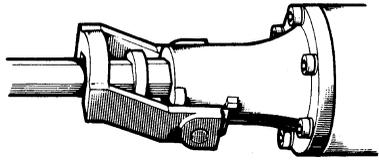
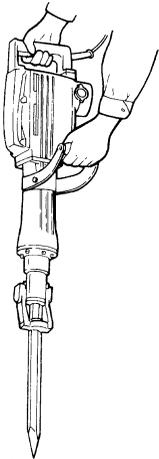


Fig. 3

**NOTE:**

When removing the accessory, such as a bull point, a cutter etc., follow the above procedure in reverse order.

**OPERATION**



1. Pull the trigger switch after applying the tip of the bit to the crushing position.  
In some cases, it is necessary to punch the tip of the bit against the crushing position forcibly in order to begin the striking stroke.  
This is not due to malfunction of the power tool. It means that the safe guard mechanism against no-load striking is working.
2. Operate this demolition hammer by utilizing its own weight.  
The performance will not be better even if it is pressed or thrust forcibly against the work surface.  
Hold this demolition hammer with a force just sufficient to counteract the reaction.

**CAUTION:**

Sometimes the power tool does not begin the striking stroke even when the motor rotates because oil has become thick. If the power tool is used at low temperatures or if it is used after a long idle time, this demolition hammer should be kept running for about five minutes in order to warm it up.

**OIL FEEDING**

**CAUTION:**

Prior to oil feeding, always disconnect the plug from the power supply receptacle. Since an oil chamber is built in this demolition hammer, it can be used for approximately 20 days without supplying oil, assuming that this demolition hammer is used continuously 3 ~ 4 hours a day.

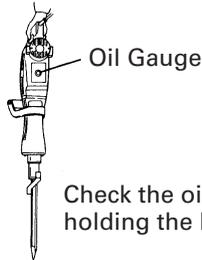
Feed oil into the oil tank as described below before using this demolition hammer. (See Figs 5 and 6)

1. Feed oil without fail before no oil is visible in the oil gauge window when this demolition hammer is held upright.
2. Before feeding oil, remove the oil gauge with the provided wrench. Be careful not to lose the rubber packing attached under the oil gauge.

3. Check the oil level once a day, confirming that oil is enough.
4. After feeding oil, securely clamp the oil gauge.

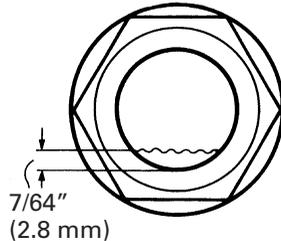
**NOTE:**

As an optional accessory, oil for the HITACHI Demolition Hammer (one liter) is sold separately. Use this oil when oil in the tank becomes less than the level indicated in Fig. 6 below.



Oil Gauge  
Check the oil quantity by holding the body upright.

**Fig. 5**



Feed oil when the oil level drops to less than approx. 7/64" (2.8 mm)

**Fig. 6**

## MAINTENANCE AND INSPECTION

**CAUTION:**

Be sure to switch power OFF and disconnect the plug before and during maintenance and inspection.

**1. Inspecting this demolition hammer**

Since use of a dull accessory, such as a bull point, a cutter, etc., will cause motor malfunctioning and efficiency degraded efficiently, when it or replace with a new one without delay when abrasion is noted.

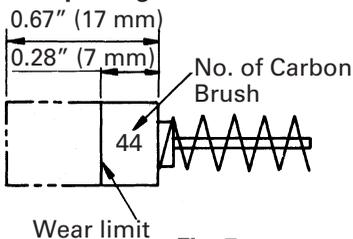
**2. Inspecting the mounting screws:**

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

**3. Inspecting the retainer (Fig.2 and 3)**

The retainer may become loose due to excessive use. Always, pay attention to its proper functioning to securely hold the accessory shank portion. If any wear and tear is found, bring this demolition hammer to an authorized service center for maintenance service.

**4. Inspecting the carbon brushes: (Fig. 7)**



**Fig. 7**

The motor employs carbon brushes which are consumable parts.

Since an excessively worn carbon brush results in motor trouble, replace the carbon brush with a new one which has the same carbon brush No. shown in figure 7 when it becomes worn to or near "wear limit".

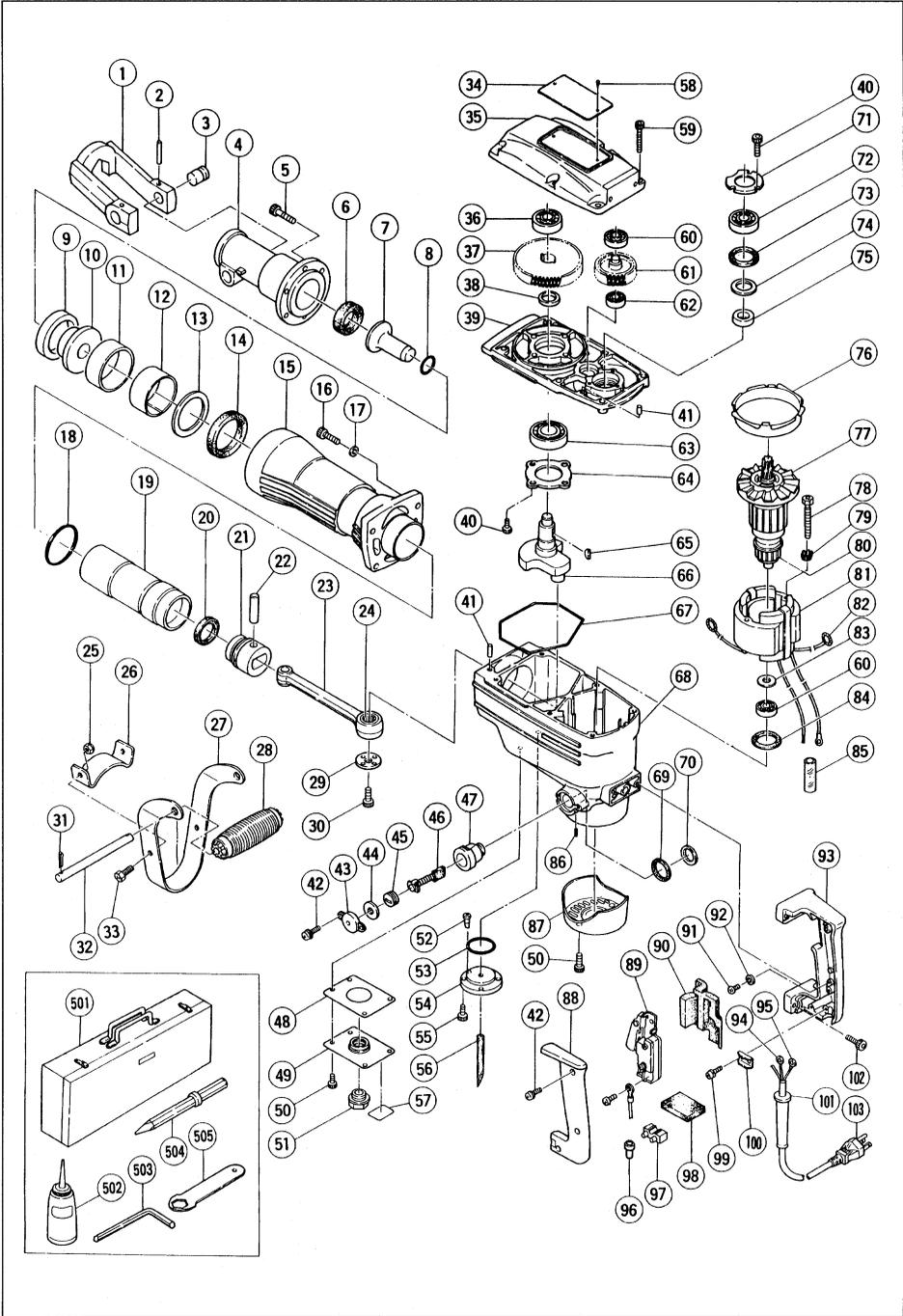
In addition, always keep carbon brushes clean and ensure that they slide freely within the brush holders.

**5. Replacing a carbon brush**

The carbon brush can be removed by removing the cap cover, cap rubber and brush cap in that order at the interior.

**NOTE:**

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



Item No.	Part Name
1	Retainer
2	Roll Pin D6×36
3	Lever Pin
4	Front Cover
5	Hexagon Socket Hd. Bolt M8×30
6	Damper (B)
7	Second Hammer
8	O-Ring
9	Damper
10	Shank Sleeve
11	Mouth Cover
12	Mouth
13	Mouth Washer
14	Urethane Ring
15	Cylinder Case
16	Hexagon Socket Hd. Bolt M8×35
17	Bolt Washer
18	O-Ring (1AS-60)
19	Striker
20	L-Ring
21	Piston
22	Piston Pin
23	Connecting Rod Ass'y
24	Needle Bearing
25	U-Nut (B) M8
26	Handle Stay
27	Side Handle Ass'y
28	Grip
29	Crank Washer
30	Hexagon Socket Hd. Bolt M8×16
31	Split Pin D8×25
32	Handle Shaft
33	High Tension Bolt M4×16
34	Name Plate
35	Gear Cover
36	Ball Bearing (6302VVCM)
37	Final Gear
38	Distance Ring (B)
39	Inner Cover
40	Hexagon Socket Hd. Bolt M5×20
41	Pin D5×15.8
42	Machine Screw M4×12
43	Cap Cover
44	Cap Rubber
45	Brush Cap
46	Carbon Brush
47	Brush Holder
48	Cover Seal
49	Cover Plate
50	Hexagon Socket Hd. Bolt M5×12
51	Oil Gauge
52	Valve
53	O-Ring (S-40)
54	Felt Holder
55	Hexagon Socket Hd. Bolt M4×12

Item No.	Part Name
56	Oil Felt
57	Caution Plate
58	Rivet D2.5×4.8
59	Hexagon Socket Hd. Bolt M6×45
60	Ball Bearing (6201VVCM)
61	Countor Gear
62	Ball Bearing (6001VVCM)
63	Ball Bearing (6205DDCM)
64	Bearing Cover
65	Woodruff Key
66	Crank Shaft
67	Seal Ring (A)
68	Housing Ass'y
69	Rubber Washer
70	Stop Plate
71	Bearing Cover (A)
72	Ball Bearing (6203VVCM)
73	Urethane Washer (A)
74	Felt Packing
75	Distance Ring (A)
76	Fan Guide
77	Fan
78	Bolt M5×60
79	Special Washer
80	Armature Ass'y
81	Stator Ass'y
82	Brush Terminal
83	Bearing Washer
84	Urethane Washer (A)
85	Vinyl Tube (I.D. 7×T0.5×50)
86	Hexagon Socket Hd. Bolt M5×8
87	Tail Cover
88	Handle Cover
89	Switch
90	Support (C)
91	Machine Screw M4×6
92	Spring Lock Washer
93	Handle
94	Terminal
95	Terminal (50051)
96	Connector
97	Pillar Terminal
98	Support
99	Machine Screw M4×12
100	Cord Clip
101	Cord Armor
102	Hexagon Socket Hd. Bolt M6×25
103	Cord
501	Case
502	Oil Feeder (120cc)
503	Hexagon Bar Wrench 6 mm
504	Bull Point 520 mm
505	Wrench 23 mm

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

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