

MODEL

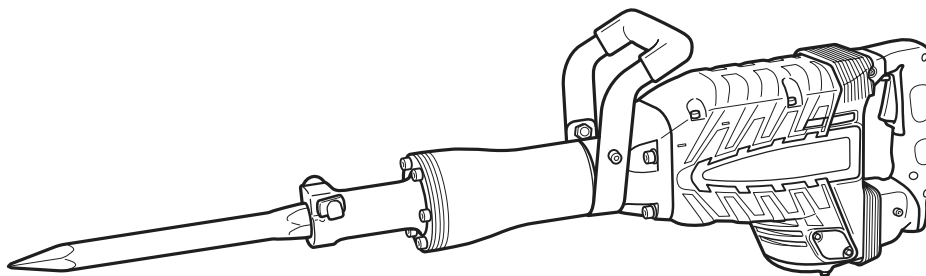
H 65SB2

Hitachi Power Tools

**DEMOLITION HAMMER
H 65SB2**

**TECHNICAL DATA
AND
SERVICE MANUAL**

H



LIST No. E482

Oct. 2004

REMARK:

Throughout this TECHNICAL DATA AND SERVICE MANUAL, a symbol is used in the place of company name and model name of our competitor.

The symbol utilized here is as follows:

| Symbol Utilized | Competitor | |
|-----------------|--------------|------------|
| | Company Name | Model Name |
| C-1 | MAKITA | HM1304 |
| C-2 | MAKITA | HM1500 |
| | | |



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1. PRODUCT NAME

Hitachi Demolition Hammer, Model H 65SB2

2. MARKETING OBJECTIVE

The new Model H 65SB2 is the upgraded version of the current Model H 65SB, developed to realize the class-top demolition performance and durability with low noise and vibration level.

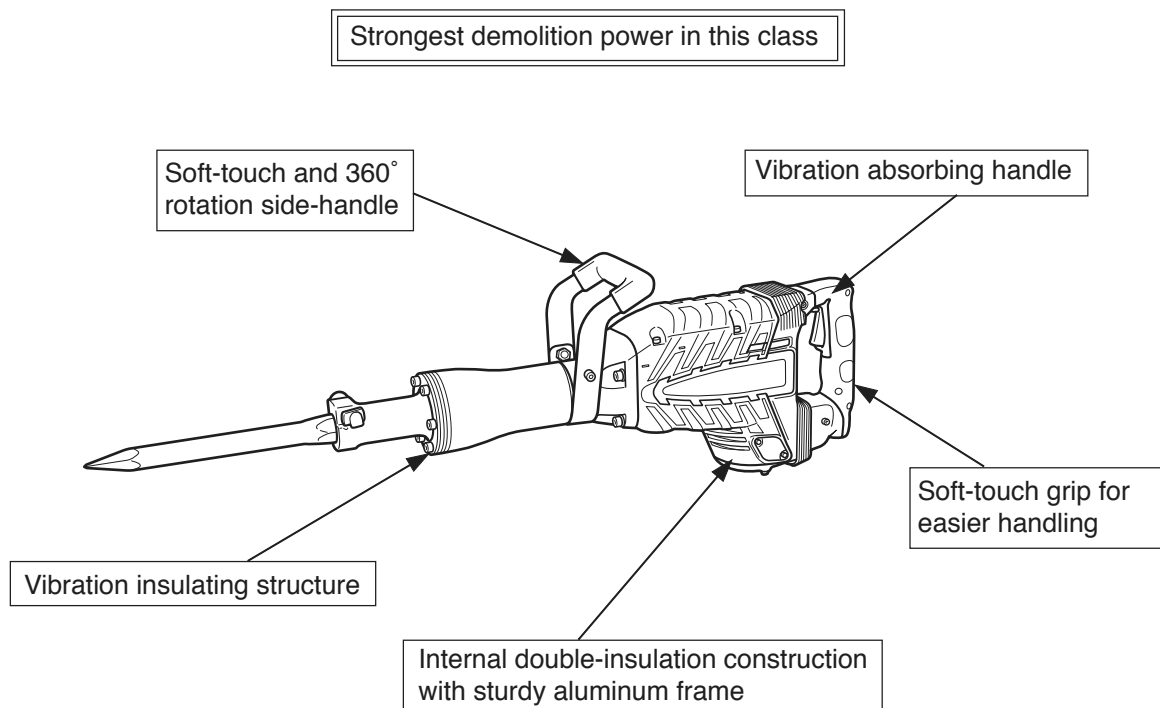
The outstanding features are as follows:

- (1) Strongest demolition power and lowest noise and vibration level in this class.
- (2) More rigid and durable housing than that of the current model thanks to the analysis technology.
- (3) Soft-touch switch handle comfortably fits in the palm of a hand.
- (4) Unique design.

3. APPLICATIONS

- Crushing of concrete and similar materials
- Groove and channel digging in concrete
- Groove and channel digging in asphalt and gravel roads
- Tamping/compacting of asphalt and graveled roads
- Cutting of asphalt

4. SELLING POINTS



4-1. Selling Point Descriptions

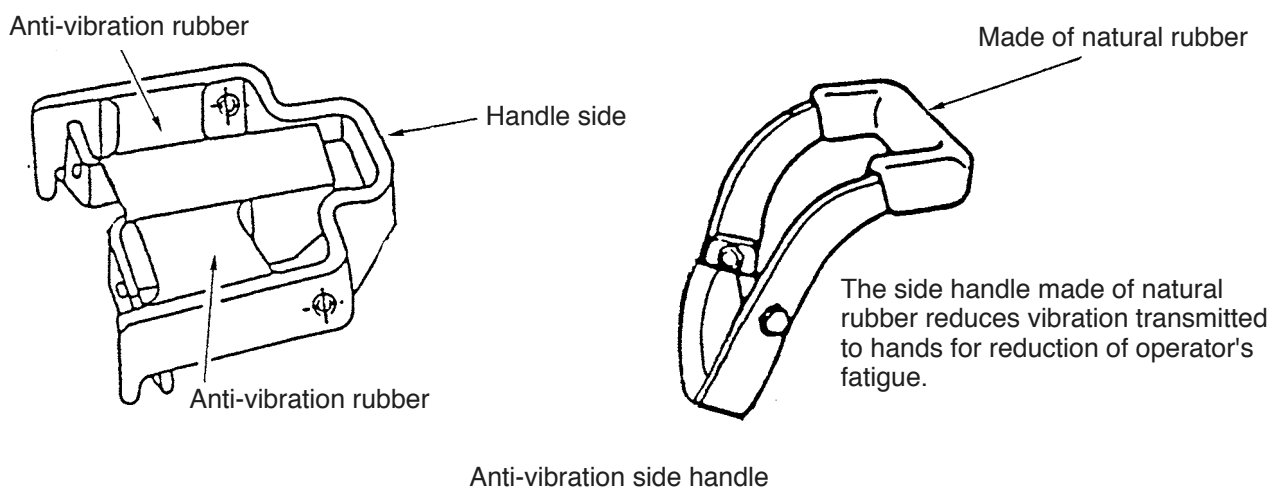
(1) Strongest demolition power in this class:

The powerful impact force of each blow ensures efficient and easy crushing of concrete. The crushing performance is 1.3 to 1.5 times more powerful than similar products.

| | HITACHI H 65SB2 | HITACHI H 65SB | C-1 | C-2 |
|---------------------------------|---------------------|---------------------|---------------------|---------------------|
| Concrete demolition ratio (%) | 100 | 89 | 67 | 80 |
| Concrete demolition amount (kg) | 287 (565.1 lbs.) | 256 (565.1 lbs.) | 192 (423.3 lbs.) | 230 (507.1 lbs.) |

(2) Anti-vibration handle for less operator fatigue:

There are two anti-vibration rubbers, illustrated below, designed to efficiently absorb the vibration from the main body of the tool, and minimize its transmission to the arms of the operator. One is mounted between the handle and the gear cover; the other is mounted between the handle and the housing.



(3) Provided with shock absorbers to reduce vibration during operation.

Vibration transmitted from an attachment tool to the main body is reduced by floating the front cover with two shock absorbers (front dampers). The Model H 65SB2 is easier to operate and reduces operator fatigue.

(4) Soft-touch switch handle comfortably fits in the palm of a hand.

The double-layer molded switch handle consists of a nylon resin base covered with a soft resin to ensure a soft touch.

(5) Internal double-insulation construction with sturdy aluminum frame

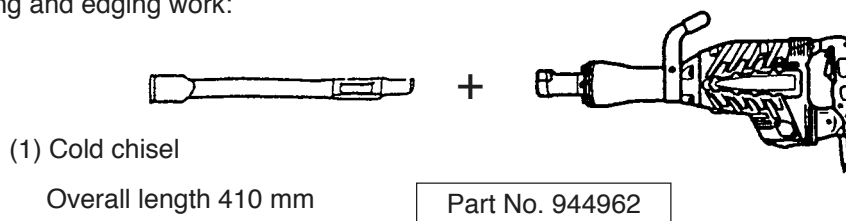
The Model H 65SB2 is equipped with a very sturdy (highly rigid) aluminum die-cast outer frame that is the same as the current Models H 65SB and H 45MR. In addition, a plastic internal S holder is adopted to realize double-insulation construction. The housing has greater rigidity thanks to the ribs efficiently positioned according to the analysis technology, and also the double-insulated motor has greater durability. The service life of the carbon brushes is greatly prolonged, minimizing disconnection of the armature and grease leakage.

5. SPECIFICATIONS

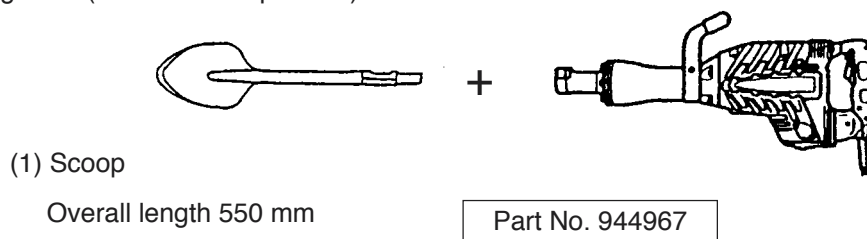
| | | | | | | | |
|-----------------------------|----------|---|--------|--------|--------|-------|-------------|
| Power source | | AC single phase | | | | | |
| Voltage | | 110 V | 115 V | 120 V | 127 V | 220 V | 230 V 240 V |
| Current | | 12.8 A | 12.2 A | 11.8 A | 11.2 A | 6.4 A | 6.1 A 5.9 A |
| Type of motor | | AC single phase commutator motor | | | | | |
| Enclosure | Material | Aluminum alloy die cast, cast aluminum alloy, nylon resin (handle, back cover) | | | | | |
| | Painting | Silver green metallic and black | | | | | |
| Type of switch | | Trigger switch with stopper | | | | | |
| Switch handle configuration | | D-type handle | | | | | |
| Power input | | 1,340 W (For Australia only 1,400 W) | | | | | |
| Full-load blow per minute | | 1,400 BPM | | | | | |
| Net weight | | 16.5 kg (36.4 lbs.) [Excluding cord] | | | | | |
| Shipping weight | | 28.5 kg (62.8 lbs.) | | | | | |
| Packaging | | Corrugated cardboard box (with plastic tool case) | | | | | |
| Standard accessories | | <ul style="list-style-type: none"> • Steel carrying case 1 pc. • Bull point 1 pc. • Hexagon bar wrench (for M8) 1 pc. • Hexagon bar wrench (for M4) 1 pc. | | | | | |

5-1. Optional Accessories

① Grooving and edging work:

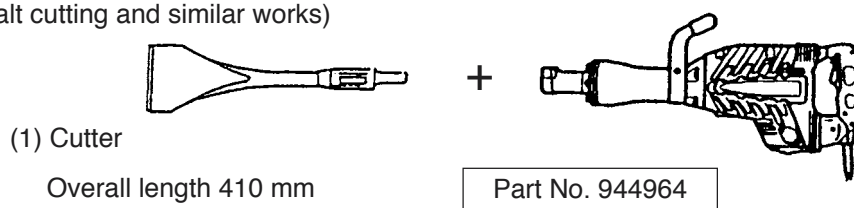


② Digging work (Substitute for pickaxe):

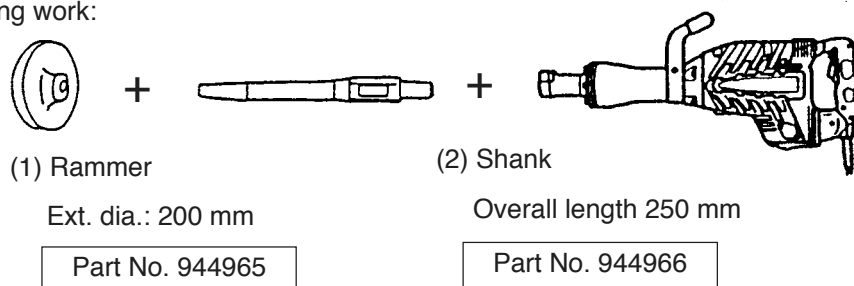


③ Cutting and stripping work:

(Asphalt cutting and similar works)



④ Tamping work:



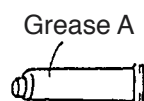
⑤ Impact drill grease:

- 500 g (Can)



Part No. 980927

- 30 g (Tube)

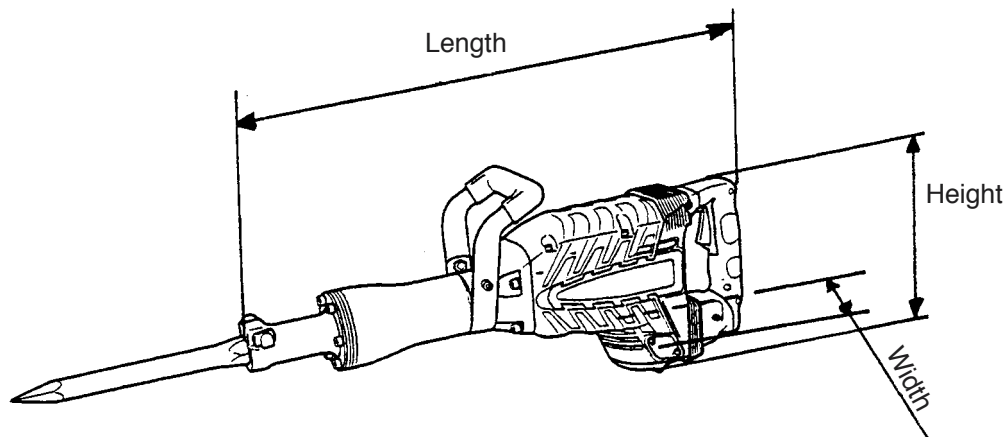


Part No. 981840

6. COMPARISON WITH SIMILAR PRODUCT

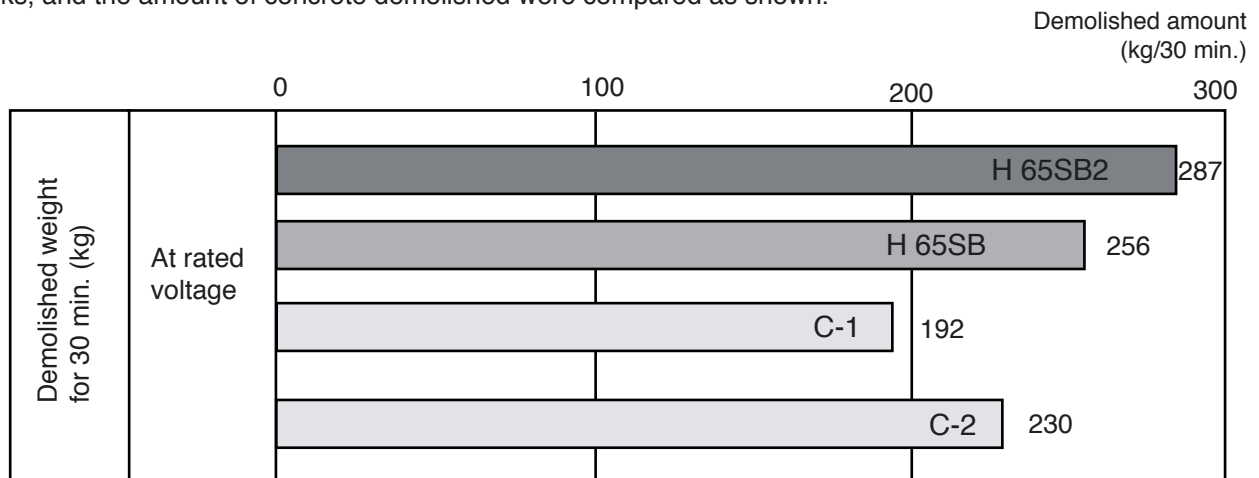
6-1. Specification Comparison

| Maker | | | HITACHI | | C-1 | C-2 |
|---------------------------|---------|----|-------------------|-------------------|-------------------|-------------------|
| Model | | | H 65SB2 | H 65SB | | |
| Power input | W | | 1,340 | 1,240 | 1,430 | 1,430 |
| Full-load impact rate | /min. | | 1,400 | 1,400 | 1,450 | 1,300 |
| Dimensions | Length | mm | 726 | 726 | 647 | 647 |
| | Height | mm | 246 | 235 | 217 | 215 |
| | Width | mm | 118 | 120 | 116 | 117 |
| Impact energy per stroke | J | | 42.0 | 42.0 | 27.5 | 28.5 |
| Insulation structure | — | | Double insulation | Double insulation | Double insulation | Double insulation |
| No-load noise level | dB (A) | | 84.6 | 85.1 | 85.2 | — |
| Full-load vibration level | dB (VL) | | 121.5 | 123.0 | 124.0 | — |
| Shock absorbing handle | — | | Provided | Provided | Not provided | Not provided |
| Weight (without cord) | kg | | 16.5 (36.4 lbs.) | 16.0 (35.3 lbs.) | 15.0 (33.1 lbs.) | 17.0 (37.5 lbs.) |



6-2. Demolition Performance Comparison

The products listed below were subjected to 30 minutes of chiseling operation on identical concrete structures or blocks, and the amount of concrete demolished were compared as shown.



NOTE: The values above are for reference only. Demolition amount may vary in accordance with operating conditions, operator skill, etc.

7. PRECAUTIONS IN SALES PROMOTION

In the interest of promoting the safest and most efficient use of the Model H 65SB2 Demolition Hammer by all of our customers, it is very important that at the time of sale the salesperson carefully ensures that the buyer seriously recognizes the importance of the contents of the Handling Instructions, and fully understands the meaning of the precautions listed on the caution plate attached to each tool.

7-1. Handling Instructions

Although every effort is made in each step of design, manufacture, and inspection to provide protection against safety hazards, the dangers inherent in the use of any electric tool cannot be completely eliminated. Accordingly, general precautions and suggestions for the use of electric power tools, and specific precautions and suggestions for the use of the Hammer are listed in the Handling Instructions to enhance the safe, efficient use of the tool by the customer. Salespersons must be thoroughly familiar with the contents of the Handling Instructions to be able to offer appropriate guidance to the customer during sales promotion.

7-2. Caution Plate

Each Model H 65SB2 is provided with a Caution Plate which lists basic precautions (illustrated below) in its use. Carefully ensure that the customer fully understands and follows these precautions before using the tool.

CAUTION

- Read thoroughly HANDLING INSTRUCTIONS before use.

Caution Plate on the back of the tool case lid

CAUTION

- The grease should be exchanged once every six months after the machine is purchased. The authorized HITACHI power tool repair shop or the shop from where the tool was bought should be instructed when it is time to exchange the grease.
- Before working on walls, floors, etc., check for buried or hidden electrical wires and water or gas pipes.

7-3. Grease Replacement

Different kinds of grease are used in the electro-pneumatic hammering section and the speed-change gear section. It is not necessary to replenish the grease unless the tool is disassembled or there is grease leakage due to a damage or worn seal.

To ensure the smooth reciprocating of the striker and the second hammer, special grease (Part No. 980927 or 981840 for impact drill) is used in the hammering section. If the hammering section (inside the cylinder case and housing [crank shaft side]) is disassembled, thoroughly wipe away all old grease from all parts, and apply 40 g of new grease within the cylinder case and 40 g of new grease within the housing (crank shaft side). Do not exceed the designated amounts of grease. If there is excessive grease, it may flow between the striker and piston and cause reduced hammering efficiency and/or increased recoil force.

N.P.C. SEP-3A (Part No. 930035) is used in the speed-change gear section (inside the Gear Cover). The proper supply amount is 80 g. Never use the hammering section special grease in the speed-change section. The special soft grease would leak into the motor section and cause serious problems.

7-4. O-ring Replacement

The O-ring mounted on the piston is extremely important to ensure adequate sealing of the air pressure. Although the O-ring is made of special rubber to ensure its long service life, it does nonetheless becomes worn and should be replaced periodically depending on the frequency of use of the tool. With average use, it is recommended that the O-ring should be replaced every six months to ensure maximum effectiveness.

8. REFERENCE INFORMATION

8-1. Sealed and Dust-proof Structure (See Fig. 1.)

The cylinder case section and the housing (crank case side) are sealed by six (6) O-rings, a holder seal, and a seal ring. These seals serve to prevent leakage of the grease, as well as to prevent dust and dirt from entering the mechanism.

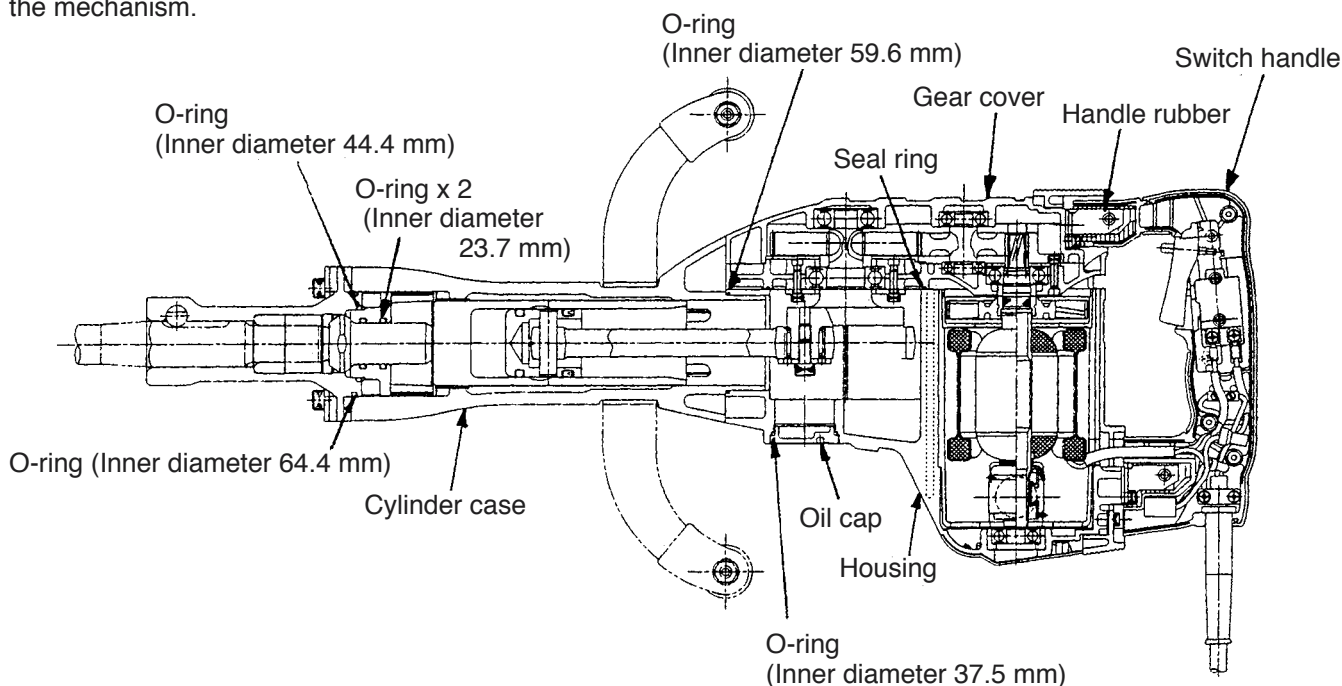


Fig. 1

8-2. Vibration-proof Structure:

There are anti-vibration cushions (handle rubbers) provided between the switch handle and the crank case and the motor housing which allow significantly less vibration to transfer from the tool to the arm of the operator than conventional type hammers.

Anti-vibration rubber

As shown in Fig. 2, the main unit and the handle are coupled only by the anti-vibration rubber.

As vibration is absorbed by the shearing type anti-vibration construction, the anti-vibration effect is high.

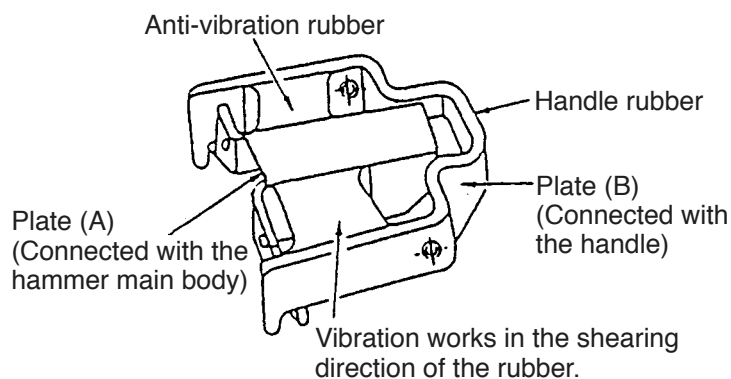


Fig. 2

8-3. Stop Lever [Tool Retainer] (See Fig. 3.)

To attach and detach the tool (bull point etc.) as shown in Fig. 3, pull the stop lever in the direction of arrow, and turn it 180°. Then, fully insert the tool into the hexagonal hole of the front cover.

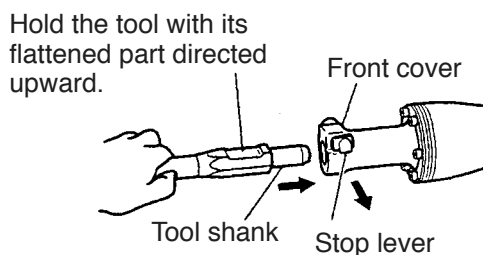


Fig. 3

8-4. Movement of Stop Lever

After an extended period of use, the operation of the stop lever may become difficult due to incursion of concrete powder or similar materials into its sliding portion. In such a case, apply oil into the sliding portion between the stop lever and the fitting portion of the front cover.

9. PRECAUTIONS IN DISASSEMBLY AND REASSEMBLY

The circled numbers in the descriptions below correspond to the item numbers in the Parts List and exploded assembly diagram.

9-1. Disassembly

NOTE: If it is difficult to loosen and remove the fixing bolts, use an appropriate heating device to heat them to approximately 80° (176°F).

(1) Disassembly of the Armature Ass'y [75]

- A. Loosen the four Seal Lock Hex. Socket Hd. Bolts M4 x 8 [54], remove the Cap Covers [55], Cap Rubbers [56] and Brush Caps [57], and take out the Carbon Brushes (Auto Stop Type) (1 Pair) [58]. At this time, be very careful not to lose the disassembled parts.
- B. Loosen the four Nylock Hex. Socket Hd. Bolts M8 x 35 [26], and remove the Cylinder Case [22]. Next, after loosening the Seal Lock Hex. Socket Hd. Bolt M8 x 16 [34], the Connecting Rod Ass'y [31] and the Crank Washer [33] can be disassembled. Leave the Striker [24] and the Piston [30] as they are.
- C. Remove the four Seal Lock Hex. Socket Hd. Bolts M5 x 16 [63] and three Tapping Screws (W/Flange) D4 x 25 (Black) [96]. Remove Handle (A) [85], Handle (B) [87], four Nylock Bolts (W/Flange) M5 x 12 [105] and Back Cover [82]. Remove the six Seal Lock Hex. Socket Hd. Bolts M6 x 45 [60], Gear Cover [38] and Counter Gear [65]. Insert a flat-blade screwdriver or a similar tool into the air vent of the Inner Cover [42] and raise the Inner Cover [42]. Then the Inner Cover [42], Armature Ass'y [75] and Crank Shaft [47] can be removed as a single unit. At this time, be very careful not to damage the Fan [74].
- D. As illustrated in Fig. 4, support the Inner Cover [42] with an appropriate tubular jig, and push down on the end surface of the armature shaft with a hand press to separate the Armature Ass'y [75] from the Inner Cover [42].

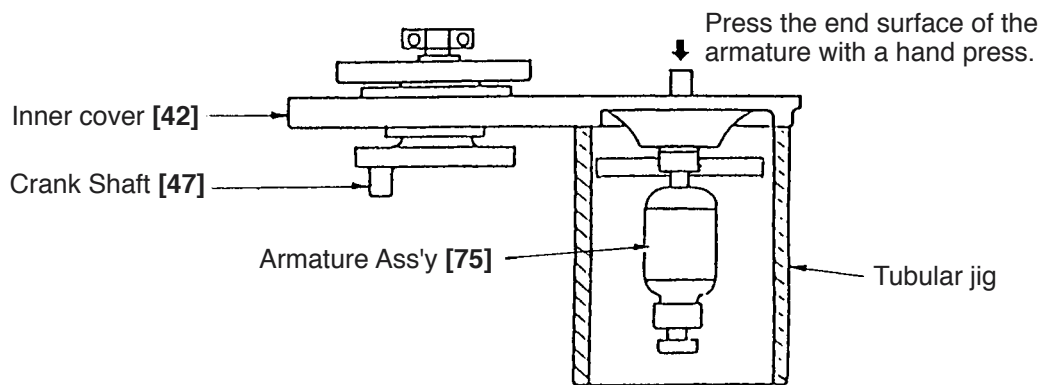


Fig. 4

(2) Disassembly of the Crank Shaft [47] section:

First, remove the four Seal Lock Hex. Socket Hd. Bolts M5 x 16 [46] which fix the Bearing Cover [45]. Then, as illustrated in Fig. 5, support the lower surface of the Inner Cover [42] with an appropriate tubular jig, align an appropriate steel rod with the end surface of the Crank Shaft [47], and press down on the steel rod with a hand press. The Ball Bearing 6205DDCMPS2L [44], Distance Ring (B) [41], Final Gear [40], two Woodruff Keys 4 x 16 [71], and Crank Shaft [47] can then be disassembled from the Inner Cover [42].

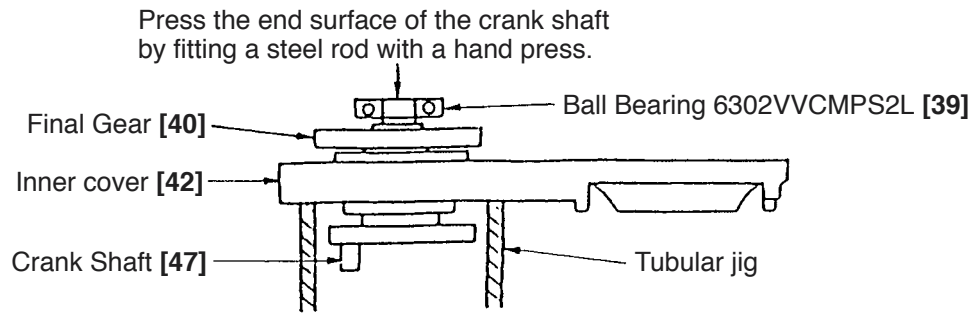


Fig. 5

(3) Disassembly of remaining parts from the Inner Cover [42]:

Loosen the three Seal Lock Hex. Socket Hd. Bolts M5 x 16 [46], and take out Bearing Cover (A) [67] and the Ball Bearing 6203DDCMPS2L [68].

(4) Disassembly of the Mouth [17] and related parts:

Remove six Nylock Hex. Socket Hd. Bolts M8 x 40 [1]. Remove the Collar [3], Damper Plate [2], two Front Dampers [4] and Front Cover [8] from the Cylinder Case [22]. Then the Second Hammer [9], Shank Sleeve [16], Damper (A) [14], Mouth [17], Mouth Cover [18], Mouth Washer [19] and Urethane Ring [20] can be removed as a single unit.

(5) Removal of the O-ring (I.D 26.5) [15]:

As the O-ring (I.D 26.5) [15] is installed in the inner portion of the Shank Sleeve [16], it may be difficult to remove. As illustrated in Fig. 6, pry the O-ring upward gently with a small minus screwdriver, being very careful not to damage the surface of the O-ring.

(6) Removal of the Striker [24] and related parts:

Remove the four Nylock Hex. Socket Hd. Bolts M8 x 35 [26], and separate the Cylinder Case [22] from the Housing Ass'y [49]. From the Cylinder Case [22], take out the Striker [24], Piston [30], and Connecting Rod Ass'y [31] in a single body. Holding the Striker [24] firmly in one hand, grasp the Connecting Rod Ass'y [31] in the other hand and pull it forcefully to separate it from the striker. Finally, extract the Piston Pin [29] from the Piston [30], and separate the Piston from the Connecting Rod Ass'y [31].

(7) Disassembly of the Stop Lever [10]:

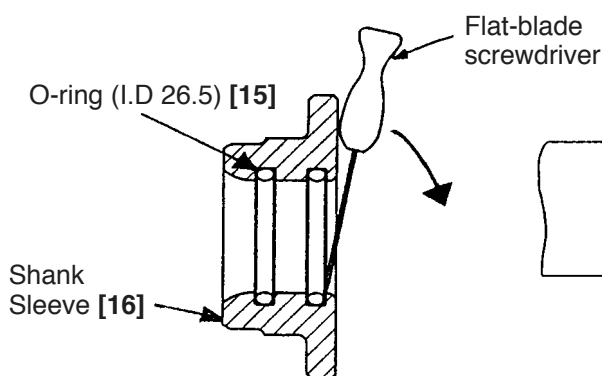


Fig. 6

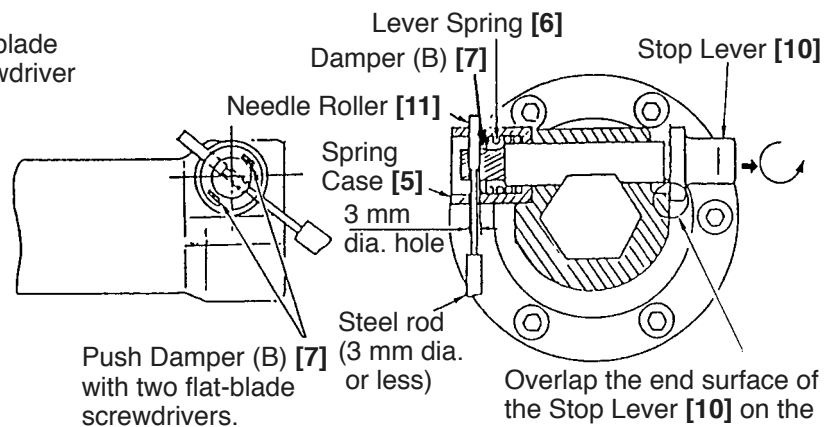


Fig. 7

Disassembly procedures are illustrated in Fig. 7. Pull the Stop Lever [10] outward in the direction indicated by the arrow, and turn it slightly so that its end surface comes to rest on the flange portion of the Front Cover [8]. Next, turn the Spring Case [5] so that the holes of the Spring Case [5] are aligned with the Needle Roller [11]. Then, push in Damper (B) [7] with flat-blade screwdrivers to compress the Lever Spring [6]. Finally, while keeping the lever spring compressed, fit a 3 mm dia. or less steel rod into the hole of the Spring Case [5], and push out the Needle Roller [11]. The Stop Lever [10], Damper (B) [7], and the Lever Spring [6] can then be taken out.

9-2. Reassembly

Reassembly can be accomplished by following the disassembly procedures in reverse. However, special attention should be given to the following items.

(1) Reassembly of the Crank Shaft [47] section:

Press-fit the Ball Bearing 6205DDCMPS2L [44] into the Inner Cover [42], and fasten the Bearing Cover [45] onto the Inner Cover [42] with the four Seal Lock Hex. Socket Hd. Bolts M5 x 16 [46]. Support the inner race of the Ball Bearing 6205DDCMPS2L [44] with an appropriate jig, and press-fit the Crank Shaft [47] into the ball bearing. Next, insert Distance Ring (B) [41] and the two Woodruff Keys 4 x 16 [71] into the Crank Shaft [47], and press-fit the Final Gear [40] and the Ball Bearing 6302VVCMP2L [39] with a hand press.

(2) Reassembly of the Armature Ass'y [75]:

Press fit the Ball Bearing 6203DDCMPS2L [68] into the Inner Cover [42], and fasten Bearing Cover (A) [67] onto the inner cover with the three Seal Lock Hex. Socket Hd. Bolts M5 x 16 [46].

(3) Reassembly of the Striker [24]: (Two possible methods)

A. After the Connecting Rod Ass'y [31] has been assembled into the Housing Ass'y [49], mount the Piston [30] and press it into the Striker [24].

B. Mount the Piston [30] onto the Connecting Rod Ass'y [31], and push down on the Connecting Rod Ass'y [31] to press the Piston [30] into the Striker [24].

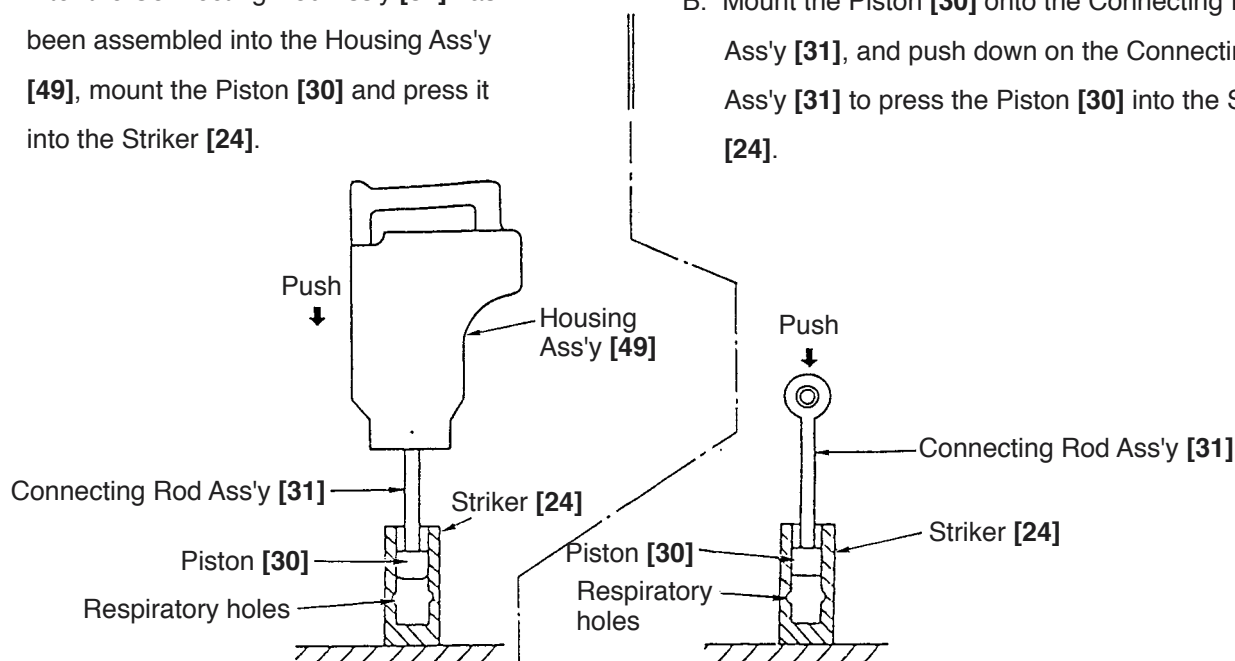


Fig. 8

Either of the two methods described above requires a pressing force of more than 30 kg. When a "hissing" sound is heard, the piston is properly inserted in the striker. (The "hissing" is the sound of the compressed air escaping from the striker when the piston reaches the respiratory chambers within the striker.)

(4) Mounting Oil Seal (A) [28]:

When mounting Oil Seal (A) [28] on the Piston [30], ensure that the lip portion of the oil seal is directed toward the rear surface of the piston, as illustrated in Fig. 9.

Prior to reassembly, thoroughly coat grease (Grease for Impact Drill, Part No. 980927, is recommended) on Oil Seal (A) [28] and O-ring (A) [25], and carefully ensure they are not damaged.

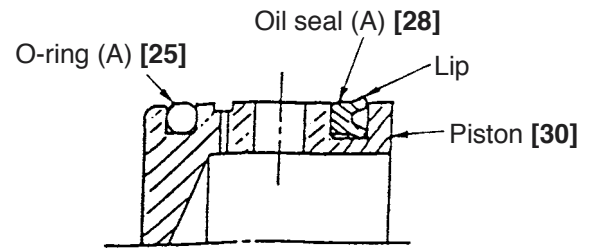


Fig. 9

(5) Safety precautions in wiring work: (See Fig. 10.)

Switch (B) (1P Screw Type) W/Lock [103] is flexibly supported by the Support [104] to protect it from damage due to vibration which could lead to possible electrical shock. Ensure without fail that the Support [104] is properly mounted. Also, ensure that the leadwires are properly covered by Vinyl Tube (A) (I.D.7 x T0.5 x 50) [100], and that the leadwires of the Stator Ass'y [78] and the grounding leadwire are properly supported by the internal Vinyl Tube [79].

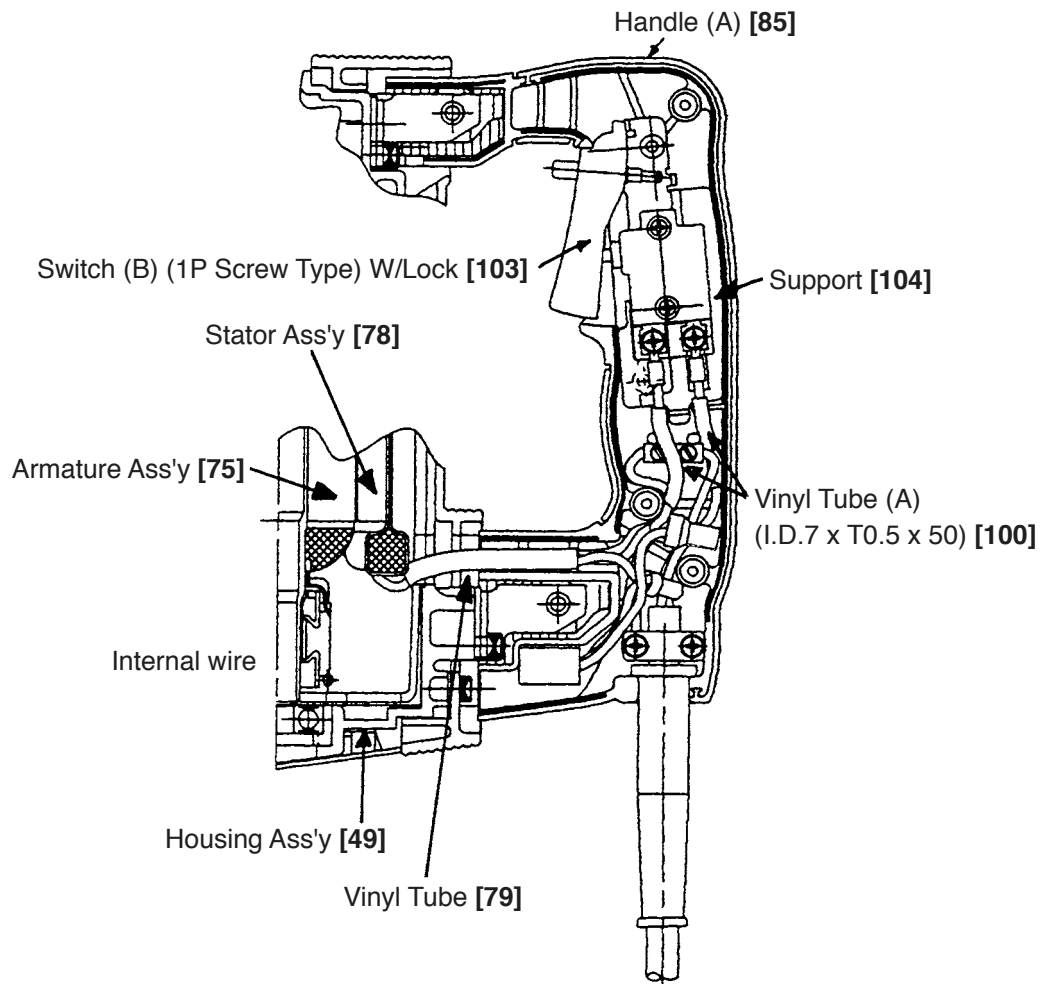


Fig. 10

(6) Reassembly of the Stop Lever [10]:

Prior to reassembly, thoroughly coat the grease (Doubrex 251, Part No. 980757, is recommended) on the sliding portion of the Stop Lever [10]. As illustrated in Fig. 11, place the end surface of the Stop Lever [10] on the flange portion of the Front Cover [8] and compress the Lever Spring [6] by pressing Damper (B) [7] with two slender flat-blade screwdrivers. Then, align the holes of the Stop Lever [10] and the Spring Case [5], and insert the Needle Roller [11].

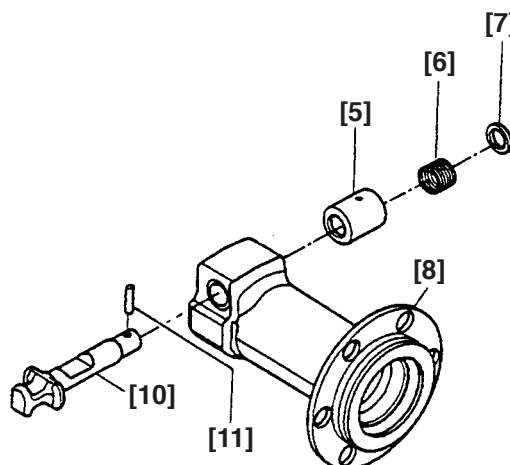


Fig. 11

9-3. Application of Adhesive

- (1) Prior to reassembly, all hexagon socket hd. bolts M5 and M6, and machine screws must be coated with Screw Locking Agent TB1401.
- (2) The following parts must be replaced with Hitachi Genuine Parts if they are loosened.
 - Front cover fixing bolts: M8 x 40 [1]
 - Cylinder case fixing bolts: M8 x 35 [26]
 - Fixing bolt on the Connecting Rod Ass'y [31] : M8 x 16 [34]

⚠ CAUTION: If fastening bolts come loose from vibration, it could cause serious damage to the machine. Ensure without fail that TB 1401 Screw Locking Agent is applied as directed above prior to reassembly.

Before applying the TB 1401, carefully clean any grease or other foreign matter from the male and female threads with gasoline, thinner or similar cleaning solvents.

9-4. Tightening Torque

| | |
|---------------------------------|---|
| Hexagon socket flanged bolts M5 | 40 ± 5 kg-cm (34.8 ± 4.3 lb-in) |
| Hexagon socket hd. bolts M4 | 45^{+5} kg-cm ($39.1^{+4.3}$ lb-in) |
| Hexagon socket hd. bolts M5 | 80^{+20}_0 kg-cm ($69.5^{+12.4}_0$ lb-in) |
| Hexagon socket hd. bolts M6 | 100^{+20}_0 kg-cm ($86.9^{+17.4}_0$ lb-in) |
| Hexagon socket hd. bolts M8 | 300^{+20}_0 kg-cm ($260^{+17.4}_0$ lb-in) |
| Tapping screw D4 | 20^{+5} kg-cm ($17.4^{+4.3}_0$ lb-in) |

NOTE: If above bolts are tightened more than the designated values, it may cause breakage.

Without fail, tighten the bolts and screws according to the above specified values.

9-5. Wiring Diagram

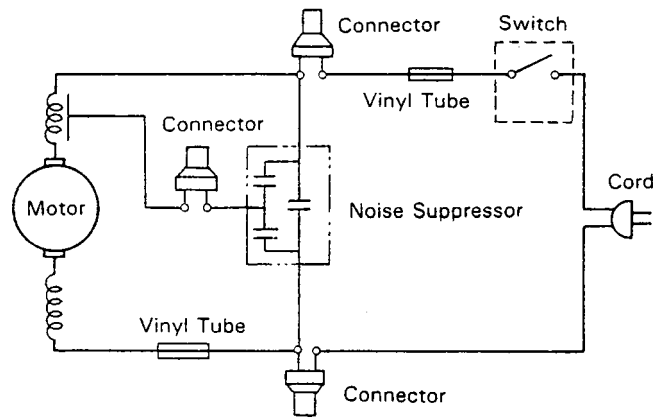


Fig. 12

9-6. Insulation Tests

After disassembly for repair servicing, the insulation resistance should be measured and the dielectric strength test (withstand voltage test) performed.

Insulation resistance: 7 M Ω or greater

Dielectric strength: Normal after applying 4000 V for one minute.

9-7. No-load Current Value

After no-load operation for 30 minutes, the no-load current value should be as follows:

| Voltage | 110 V | 115 V | 120 V | 127 V | 220 V | 230 V | 240 V |
|------------------|-------|-------|-------|-------|-------|-------|-------|
| Current (A) Max. | 5.9 A | 5.7 A | 5.4 A | 5.2 A | 3.0 A | 2.8 A | 2.7 A |

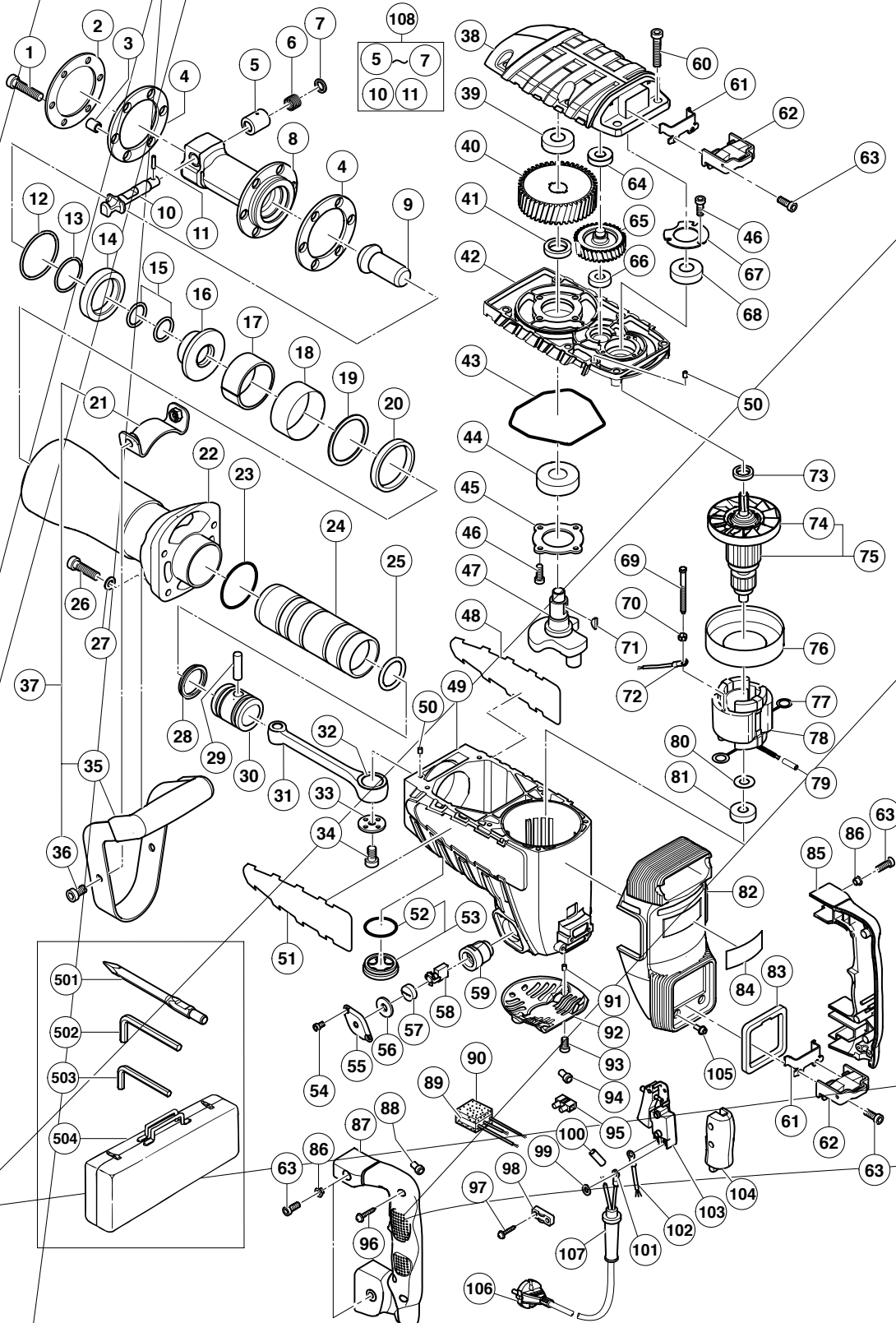
10. STANDARD REPAIR TIME (UNIT) SCHEDULES

| MODEL | Variable | | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 |
|---------|------------------|------------|--|--|--|--|---------------|----|----|-------------------------------|
| | Fixed | | | | | | | | | |
| H 65SB2 | General Assembly | Work Flow | | | | | | | | |
| | | | | | | | | | | |
| | | | Switch (B) Cord Cord Armor | | | | | | | |
| | | Tail Cover | | | | | | | | Housing Ass'y Stator Ass'y |
| | | | Handle (A) Handle (B) Handle Rubber x 2 Back Cover | Gear Cover Ball Bearing (6302VV) Final Gear Ball Bearing (6201VV) Counter Gear Ball Bearing (6001VV) | | Armature Ass'y Ball Bearing (6201DD) | | | | |
| | | | | | | Inner Cover Ball Bearing (6205DD) Crank Shaft Ball Bearing (6203DD) | | | | |
| | | Stop Lever | | Front Cover Second Hammer O-ring (C) O-ring (B) Damper (A) O-ring x 2 Shank Sleeve Mouth Mouth Cover Urethane Ring | | | | | | |
| | | | | | Striker O-ring (1AS-60) O-ring (A) Oil Seal (A) Piston Connecting Rod Ass'y Needle Bearing | | Cylinder Case | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

ELECTRIC TOOL PARTS LIST

DEMOLITION HAMMER Model H 65SB2

2004 · 10 · 10
(E1)



PARTS

H 65SB2

| ITEM NO. | CODE NO. | DESCRIPTION | NO. USED | REMARKS | |
|----------|----------|--------------------------------------|----------|--------------------|--|
| 1 | 323-734 | NYLOCK HEX. SOCKET HD. BOLT M8X40 | 6 | | |
| 2 | 323-736 | DAMPER PLATE | 1 | | |
| 3 | 323-737 | COLLAR | 6 | | |
| 4 | 323-735 | FRONT DAMPER | 2 | | |
| 5 | 998-424 | SPRING CASE | 1 | | |
| 6 | 956-975 | LEVER SPRING | 1 | | |
| 7 | 998-425 | DAMPER (B) | 1 | | |
| 8 | 323-733 | FRONT COVER | 1 | | |
| 9 | 323-732 | SECOND HAMMER | 1 | | |
| 10 | 323-748 | STOP LEVER | 1 | | |
| 11 | 998-426 | NEEDLE ROLLER | 1 | | |
| 12 | 998-428 | O-RING (C) | 1 | | |
| 13 | 998-427 | O-RING (B) | 1 | | |
| 14 | 998-433 | DAMPER (A) | 1 | | |
| 15 | 323-731 | O-RING (I.D 26.5) | 2 | | |
| 16 | 323-730 | SHANK SLEEVE | 1 | | |
| 17 | 956-963 | MOUTH | 1 | | |
| 18 | 956-962 | MOUTH COVER | 1 | | |
| 19 | 323-729 | MOUTH WASHER | 1 | | |
| 20 | 956-960 | URETHANE RING | 1 | | |
| 21 | 320-374 | HANDLE STAY (W/NUT) | 1 | | |
| 22 | 323-728 | CYLINDER CASE | 1 | | |
| 23 | 956-996 | O-RING (1AS-60) | 1 | | |
| 24 | 323-724 | STRIKER | 1 | | |
| 25 | 998-414 | O-RING (A) | 1 | | |
| 26 | 306-163 | NYLOCK HEX. SOCKET HD. BOLT M8X35 | 4 | | |
| 27 | 949-433 | BOLT WASHER M8 (10 PCS.) | 4 | | |
| 28 | 998-415 | OIL SEAL (A) | 1 | | |
| 29 | 944-928 | PISTON PIN | 1 | | |
| 30 | 998-413 | PISTON | 1 | | |
| 31 | 998-434 | CONNECTING ROD ASS'Y | 1 | INCLUD. 32 | |
| 32 | 944-921 | NEEDLE BEARING (NTN 8E-NK 18/20 RDO) | 1 | | |
| 33 | 956-955 | CRANK WASHER | 1 | | |
| 34 | 996-364 | SEAL LOCK HEX. SOCKET HD. BOLT M8X16 | 1 | | |
| 35 | 306-166 | GRIP | 1 | | |
| 36 | 320-375 | NYLOCK HEX. SOCKET HD. BOLT M8X16 | 2 | | |
| 37 | 306-165 | SIDE HANDLE ASS'Y | 1 | INCLUD. 21, 35, 36 | |
| 38 | 323-723 | GEAR COVER | 1 | | |
| 39 | 630-2VV | BALL BEARING 6302VVCMP2L | 1 | | |
| 40 | 944-916 | FINAL GEAR | 1 | | |
| 41 | 944-915 | DISTANCE RING (B) | 1 | | |
| 42 | 323-722 | INNER COVER | 1 | | |
| 43 | 323-725 | SEAL RING | 1 | | |
| 44 | 620-5DD | BALL BEARING 6205DDCMP2L | 1 | | |
| 45 | 956-949 | BEARING COVER | 1 | | |
| 46 | 990-079 | SEAL LOCK HEX. SOCKET HD. BOLT M5X16 | 7 | | |
| 47 | 998-430 | CRANK SHAFT | 1 | | |
| 48 | | HITACHI LABEL | 1 | | |
| 49 | 323-721 | HOUSING ASS'Y | 1 | INCLUD. 59, 91 | |
| 50 | 944-918 | PIN D5X15.8 | 2 | | |
| 51 | | HITACHI LABEL | 1 | | |

PARTS

H 65SB2

| ITEM NO. | CODE NO. | DESCRIPTION | NO. USED | REMARKS | |
|----------|----------|--|----------------------------|------------|--|
| 52 | 980-717 | O-RING (S-38) | 1 | | |
| 53 | 990-945 | OIL CAP ASS'Y | 1 | INCLUD. 52 | |
| 54 | 877-838 | SEAL LOCK HEX. SOCKET HD. BOLT M4X8 | 4 | | |
| 55 | 323-727 | CAP COVER | 2 | | |
| 56 | 944-960 | CAP RUBBER | 2 | | |
| 57 | 940-540 | BRUSH CAP | 2 | | |
| 58 | 999-086 | CARBON BRUSH (AUTO STOP TYPE) (1 PAIR) | 2 | | |
| 59 | 956-984 | BRUSH HOLDER | 2 | | |
| 60 | 986-940 | SEAL LOCK HEX. SOCKET HD. BOLT M6X45 | 6 | | |
| 61 | 980-750 | GUIDE PLATE | 2 | | |
| 62 | 980-727 | HANDLE RUBBER | 2 | | |
| 63 | 990-079 | SEAL LOCK HEX. SOCKET HD. BOLT M5X16 | 8 | | |
| 64 | 620-1VV | BALL BEARING 6201VVCMP2L | 1 | | |
| 65 | 956-948 | COUNTER GEAR | 1 | | |
| 66 | 600-1VV | BALL BEARING 6001VVCMP2L | 1 | | |
| 67 | 944-911 | BEARING COVER (A) | 1 | | |
| 68 | 620-3DD | BALL BEARING 6203DDCMPS2L | 1 | | |
| 69 | 960-251 | HEX. HD. TAPPING SCREW D5X65 | 2 | | |
| 70 | 956-764 | SPECIAL WASHER | 2 | | |
| 71 | 956-850 | WOODRUFF KEY 4X16 | 2 | | |
| * | 72 | 994-190 | INTERNAL WIRE | 1 | FOR NZL, AUS, GBR, SAF, EUROPE, FIN, NOR, SWE, DEN, AUT, SUI |
| | | | | | |
| | 73 | 944-907 | DISTANCE RING (A) | 1 | |
| | 74 | 996-370 | FAN | 1 | |
| * | 75 | 360-286C | ARMATURE ASS'Y 110V-115V | 1 | INCLUD. 74 |
| * | 75 | 360-286E | ARMATURE ASS'Y 220V-230V | 1 | INCLUD. 74 |
| * | 75 | 360-286F | ARMATURE ASS'Y 240V | 1 | INCLUD. 74 |
| | 76 | 306-098 | FAN GUIDE | 1 | |
| | 77 | 945-932 | BRUSH TERMINAL | 2 | |
| * | 78 | 340-259C | STATOR ASS'Y 110V-115V | 1 | INCLUD. 77 |
| * | 78 | 340-259E | STATOR ASS'Y 220V-230V | 1 | INCLUD. 77 |
| * | 78 | 340-259F | STATOR ASS'Y 240V | 1 | INCLUD. 77 |
| * | 78 | 340-259H | STATOR ASS'Y 240V | 1 | INCLUD. 77 FOR AUS |
| | 79 | 322-530 | VINYL TUBE | 1 | |
| | 80 | 944-954 | BEARING WASHER | 1 | |
| | 81 | 620-1DD | BALL BEARING 6201DDCMPS2L | 1 | |
| | 82 | 323-740 | BACK COVER | 1 | |
| | 83 | 323-741 | HANDLE PACKING | 1 | |
| | 84 | | NAME PLATE | 1 | |
| | 85 | 323-743 | HANDLE (A) | 1 | |
| | 86 | 991-711 | DISTANCE PIECE (B) | 4 | |
| | 87 | 323-744 | HANDLE (B) | 1 | |
| * | 88 | 959-141 | CONNECTOR 50092 (10 PCS.) | 2 | |
| * | 88 | 959-141 | CONNECTOR 50092 (10 PCS.) | 1 | FOR AUS, GBR, SAF, EUROPE, FIN, NOR, SWE, DEN, AUT, SUI |
| | | | | | |
| * | 89 | 994-273 | NOISE SUPPRESSOR | 1 | FOR NZL, AUS, SAF |
| * | 89 | 317-491 | NOISE SUPPRESSOR | 1 | FOR GBR, EUROPE, FIN, NOR, SWE, DEN, AUT, SUI |
| | | | | | |
| * | 90 | 930-153 | SUPPORT (B) | 1 | FOR NOISE SUPPRESSOR |
| | 91 | 938-477 | HEX. SOCKET SET SCREW M5X8 | 2 | |
| | 92 | 323-726 | TAIL COVER | 1 | |

PARTS

H 65SB2

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H 65SB2

[illegible]

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