

# Hitachi Power Tools

SERVICE MANUAL

LIST No.  
H 45MEY: F435  
H 45ME: F434  
Jun. 2016

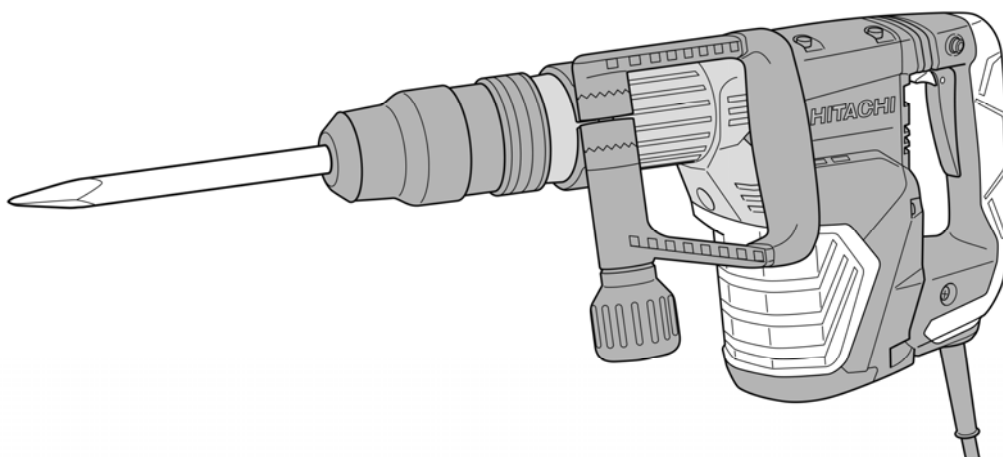
PRODUCT NAME.....

## Hitachi Demolition Hammer

Model **H 45MEY**  
**H 45ME**

CONTENTS	Page
<b>TROUBLESHOOTING GUIDE</b> .....	<b>1</b>
1. Troubleshooting and corrective action .....	1
<b>REPAIR GUIDE</b> .....	<b>3</b>
1. Precautions on disassembly and reassembly .....	3
<b>STANDARD REPAIR TIME (UNIT) SCHEDULES</b> .....	<b>16</b>

**H**



**HITACHI**





 **Hitachi Koki Co., Ltd.**  
Overseas Sales Division

**[Bold]** numbers in the description below correspond to the item numbers in the parts list and exploded assembly diagram for the Model H 45MEY, **{Bold}** numbers to those for the Model H 45ME, and **<Bold>** numbers to the item numbers for both models.

## TROUBLESHOOTING GUIDE

### 1. Troubleshooting and corrective action

Perform troubleshooting and take a necessary corrective action according to the table below if there is a problem that cannot be solved by the corrective action described in the handling instructions.

Problem	Cause	Check	Corrective action
All the four LEDs of the display lamp are flashing. 	<ul style="list-style-type: none"> <li>Broken Controller <b>[53]{50}</b>.</li> </ul>	<ul style="list-style-type: none"> <li>No check needed.</li> </ul>	<ul style="list-style-type: none"> <li>Replace the Controller <b>[53]{50}</b> with a new one.</li> </ul>
Three LEDs of the display lamp are flashing. 	<ul style="list-style-type: none"> <li>Mix-up of three internal wires of Stator Sensor PCB Set <b>[45]{42}</b> and Controller <b>[53]{50}</b></li> </ul>	<ul style="list-style-type: none"> <li>Check the heat-shrinkable tube colors (red, black, and white) of internal wires connecting the Stator Sensor PCB Set <b>[45]{42}</b> and Controller <b>[53]{50}</b>.</li> </ul>	<ul style="list-style-type: none"> <li>Correctly connect internal wires of the Stator Sensor PCB Set <b>[45]{42}</b> and Controller <b>[53]{50}</b> by their tube colors (red, black, and white).</li> </ul>
	<ul style="list-style-type: none"> <li>Broken Controller <b>[53]{50}</b></li> </ul>	<ul style="list-style-type: none"> <li>Check the state of the Controller <b>[53]{50}</b> connector.</li> </ul>	<ul style="list-style-type: none"> <li>Replace the Controller <b>[53]{50}</b> with a new one.</li> </ul>
	<ul style="list-style-type: none"> <li>Broken Rotor <b>[102]{99}</b></li> </ul>	<ul style="list-style-type: none"> <li>Check the built-in magnet of the fan for breaks.</li> </ul>	<ul style="list-style-type: none"> <li>Replace the Rotor <b>[102]{99}</b> with a new one.</li> </ul>
Two LEDs of the display lamp are flashing. 	<ul style="list-style-type: none"> <li>Broken Controller <b>[53]{50}</b></li> </ul>	<ul style="list-style-type: none"> <li>No check needed.</li> </ul>	<ul style="list-style-type: none"> <li>Replace the Controller <b>[53]{50}</b> with a new one.</li> </ul>
One LED of the display lamp is flashing. 	<ul style="list-style-type: none"> <li>Improperly connected connector cable of the Stator Sensor PCB Set <b>[45]{42}</b></li> </ul>	<ul style="list-style-type: none"> <li>Check the plug-in state of the connector cable. (See "Reassembly of the power supply unit" on page 11.)</li> </ul>	<ul style="list-style-type: none"> <li>Firmly plug the connector cable.</li> </ul>
	<ul style="list-style-type: none"> <li>Broken Stator Sensor PCB Set <b>[45]{42}</b></li> </ul>	<ul style="list-style-type: none"> <li>When the connector cable is not defective</li> </ul>	<ul style="list-style-type: none"> <li>Replace the Stator Sensor PCB Set <b>[45]{42}</b> with a new one.</li> </ul>
	<ul style="list-style-type: none"> <li>Broken Controller <b>[53]{50}</b></li> </ul>	<ul style="list-style-type: none"> <li>Check the plug-in state of the Controller <b>[53]{50}</b> connector.</li> </ul>	<ul style="list-style-type: none"> <li>Replace the Controller <b>[53]{50}</b> with a new one.</li> </ul>
	<ul style="list-style-type: none"> <li>Broken Rotor <b>[102]{99}</b></li> </ul>	<ul style="list-style-type: none"> <li>Check the built-in magnet of the fan for breaks.</li> </ul>	<ul style="list-style-type: none"> <li>Replace the Rotor <b>[102]{99}</b> with a new one.</li> </ul>

Problem	Cause	Check	Corrective action
No LED of the display lamp is ON.	<ul style="list-style-type: none"> <li>Improperly connected connector cable of the Panel <b>[98]{95}</b> PCB</li> </ul>	<ul style="list-style-type: none"> <li>Check the plug-in state of the connector cable. (See "Reassembly of the power supply unit" on page 11.)</li> </ul>	<ul style="list-style-type: none"> <li>Firmly plug in the connector cable.</li> </ul>
	<ul style="list-style-type: none"> <li>Internal wires loosely plugged into the Controller <b>[53]{50}</b> and Filter PCB Set <b>[62]{59}</b></li> </ul>	<ul style="list-style-type: none"> <li>Check the plug-in state of the internal wires. (See "Reassembly of the power supply unit" on page 11.)</li> </ul>	<ul style="list-style-type: none"> <li>Firmly plug the internal wires into the Controller <b>[53]{50}</b> and Filter PCB Set <b>[62]{59}</b>.</li> </ul>
	<ul style="list-style-type: none"> <li>Broken Controller <b>[53]{50}</b></li> </ul>	<ul style="list-style-type: none"> <li>When the Controller <b>[53]{50}</b> connector is not defective</li> <li>When the internal wire is not defective</li> </ul>	<ul style="list-style-type: none"> <li>Replace the Controller <b>[53]{50}</b> with a new one.</li> </ul>
	<ul style="list-style-type: none"> <li>Broken LED</li> </ul>	<ul style="list-style-type: none"> <li>When the connector cable is not defective</li> </ul>	<ul style="list-style-type: none"> <li>Replace the Panel <b>[98]{95}</b> with a new one.</li> </ul>
	<ul style="list-style-type: none"> <li>Broken Filter PCB Set <b>[62]{59}</b></li> </ul>	<ul style="list-style-type: none"> <li>When the internal wire is not defective</li> </ul>	<ul style="list-style-type: none"> <li>Replace the Filter PCB Set <b>[62]{59}</b> with a new one.</li> </ul>
The LEDs of the display lamp light, but the motor does not run.	<ul style="list-style-type: none"> <li>Internal wires loosely connected to the Switch <b>[69]{66}</b></li> </ul>	<ul style="list-style-type: none"> <li>Check the plug-in state of internal wires to the Switch <b>[69]{66}</b>. (See "Reassembly of the power supply unit" on page 11.)</li> </ul>	<ul style="list-style-type: none"> <li>Firmly connect all internal wires to the Switch <b>[69]{66}</b>.</li> </ul>
	<ul style="list-style-type: none"> <li>Broken Controller <b>[53]{50}</b></li> </ul>	<ul style="list-style-type: none"> <li>When internal wires of the Controller <b>[53]{50}</b> are not defective</li> </ul>	<ul style="list-style-type: none"> <li>Replace the Controller <b>[53]{50}</b> with a new one.</li> </ul>
	<ul style="list-style-type: none"> <li>Broken Switch <b>[69]{66}</b></li> </ul>	<ul style="list-style-type: none"> <li>When internal wires of the Controller <b>[53]{50}</b> are not defective</li> </ul>	<ul style="list-style-type: none"> <li>Replace the Switch <b>[69]{66}</b> with a new one.</li> </ul>

# REPAIR GUIDE

## 1. Precautions on disassembly and reassembly

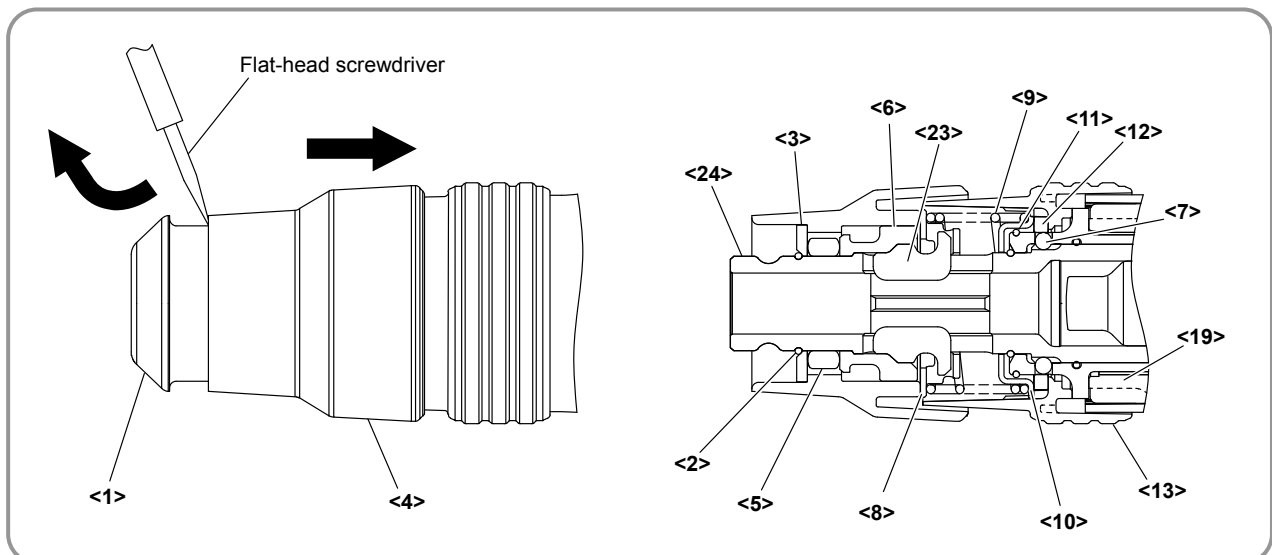
**WARNING:** Be sure to disconnect the power cord plug from the wall outlet before conducting repair. Otherwise, the motor may run suddenly and you could get injured.

### Disassembly

#### 1. Disassembly of the tool retainer

Remove the Front Cap <1> while pulling the Grip <4> in the arrow direction. Note that the Front Cap <1> is firmly fitted to the Retainer Sleeve <24>. Insert the edge of a flat-head screwdriver or similar tool into the gap between the Front Cap <1> and Grip <4>, and then pry up the Front Cap <1> by placing the fulcrum on the Grip <4> as shown below. Then remove the Front Cap <1> from the Retainer Sleeve <24>. Remove the Stopper Ring <2> by using a retaining ring puller. Then remove the Retainer Washer <3>, Grip <4>, Retainer Damper (A) <5>, Bit Lock Holder <6>, two Bit Locks <23>, Spring Holder (A) <8>, Retainer Spring <9>, and Spring Holder (B) <10> from the Retainer Sleeve <24>.

Remove the Stopper Ring <11> by using a retaining ring puller. Then remove the Ball Holder <12>, Grip (B) <13>, and four Steel Balls D5 <7> from the Cylinder Case <19>.



#### 2. Disassembly of the hammering mechanism

##### (1) Removal of the second hammer and striker

(a) Remove the Bolt M5 x 12 <14> from the Cylinder Case Cover <15> and detach the Cylinder Case Cover <15> from the Cylinder Case <19>.

(b) Remove the Bolt M6 x 25 <18> and detach the Cylinder Case <19> from the Crank Case [91]{88}.

(c) Disassembly of the vibration reduction mechanism (Model H 45MEY only):

Remove the Retaining Ring for D52 Hole [39] by using a retaining ring puller. Then remove the two Weight Washers [29], two Weight Springs [37], and Weight [38] from the Cylinder Case [19].

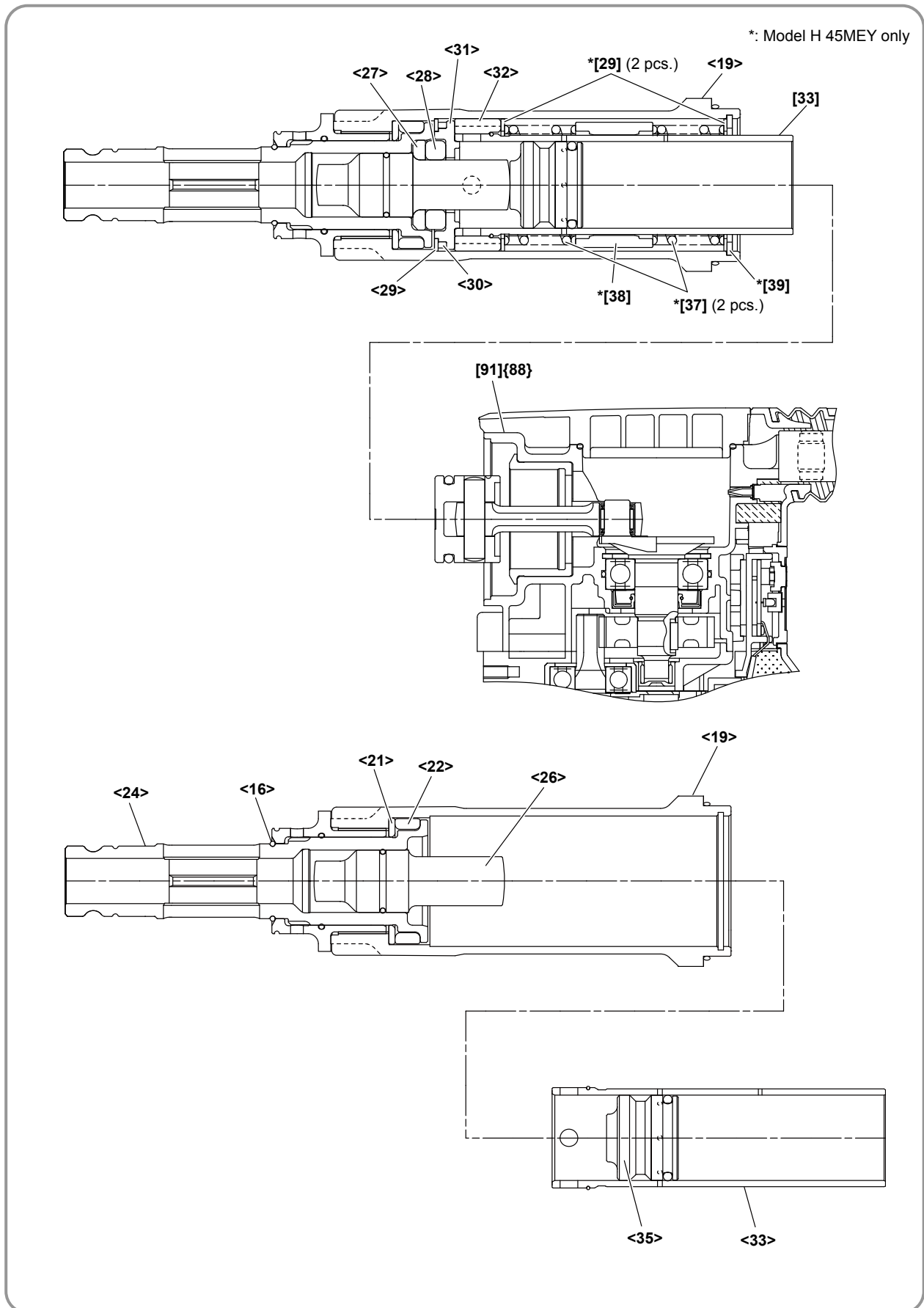
**NOTE:** Be careful not to pop out the Weight Washers [29], Weight Springs [37], and Weight [38] when removing the Retaining Ring for D52 Hole [39].

(d) Remove the Cylinder <33>, Cylinder Holder <32>, Damper Holder <31>, Damper <28>, Damper Washer <27>, Damper (C) <30>, and Weight Washer <29> from the Cylinder Case <19>.

(e) Tap the end of the Cylinder <33> with a plastic hammer to pull out the Striker <35>.

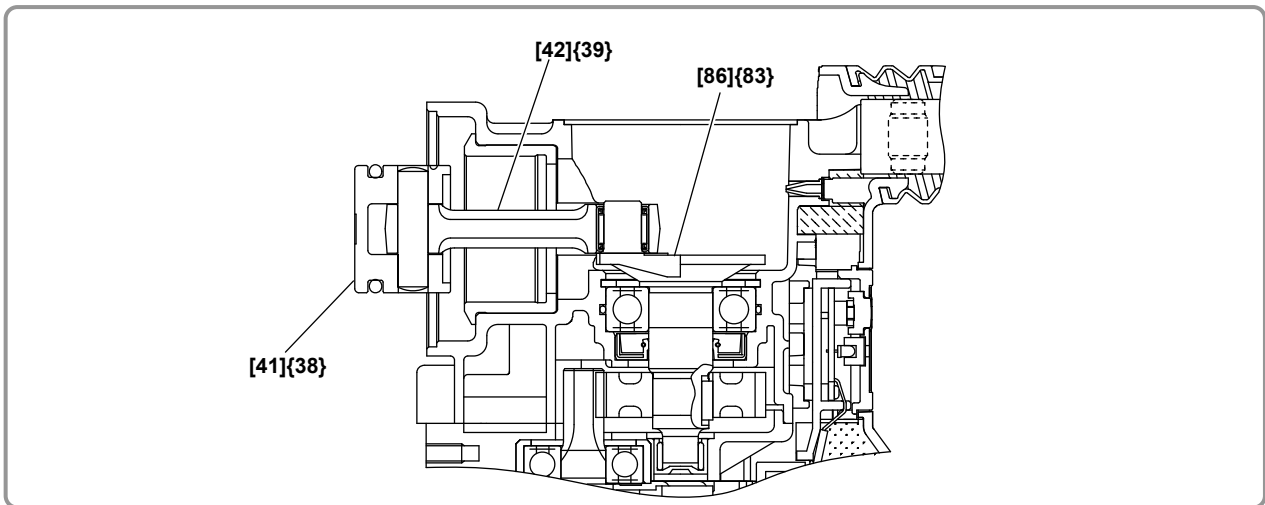
(f) Remove the Ring <16> from the Retainer Sleeve <24> by using a retaining ring puller. Then remove the Retainer Sleeve <24>, Retainer Damper (B) <22>, Retainer Damper Holder <21> from the Cylinder Case <19>.

(g) Separate the Second Hammer <26> from the removed Retainer Sleeve <24>.



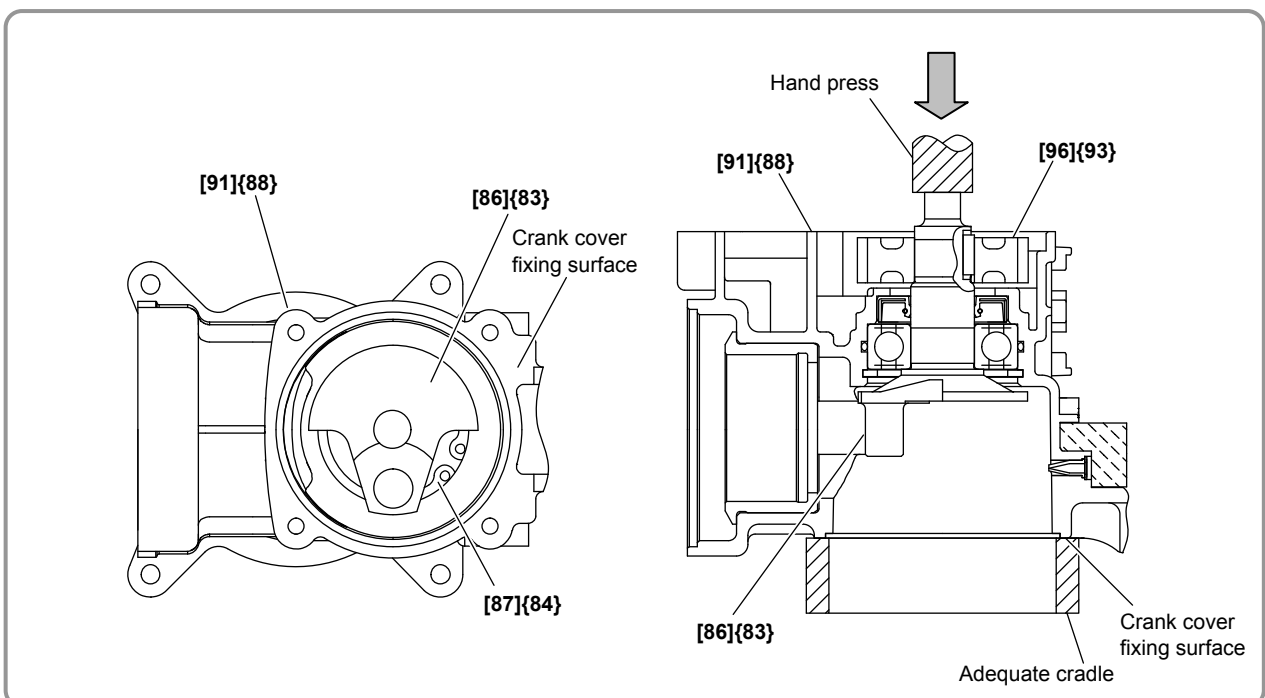
(2) Removal of the piston

Move the Connecting Rod Ass'y [42]{39} as shown below and remove the Piston [41]{38} from the Crank Shaft [86]{83}.



(3) Removal of the first gear and crank shaft

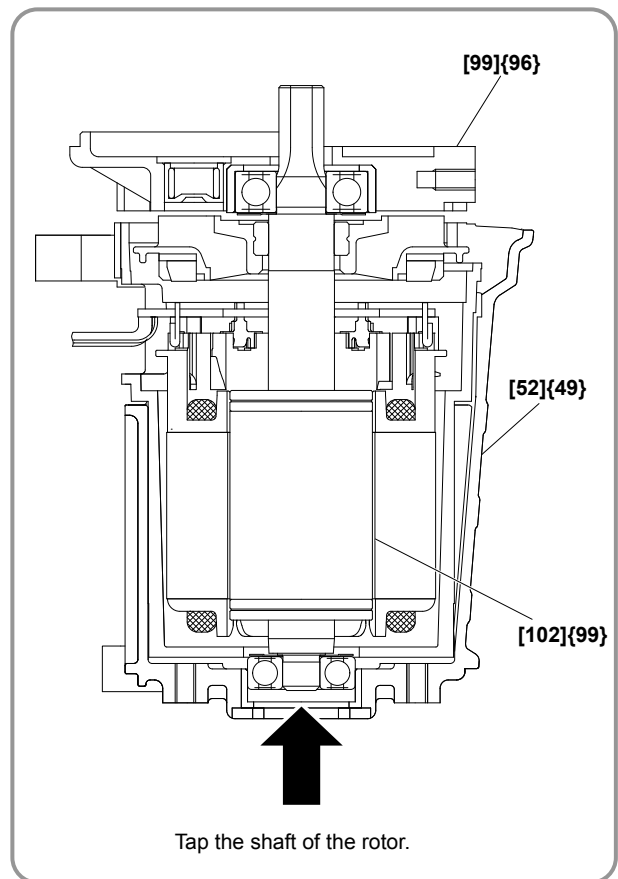
- (a) Remove the Bolt M5 x 16 [65]{62}, and then remove the Crank Cover [84]{81} from the Crank Case [91]{88}.
- (b) Remove the Bolt M5 x 16 [65]{62}, Bolt M5 x 12 [56]{53}, and Screw D5 x 25 [70]{67}, and then remove handle (A), handle (B), and Back Cover [64]{61}.
- (c) Disconnect the connector of the Panel [98]{95} from the Controller [53]{50}. Remove the Bolt M6 x 45 [49]{46}, and then remove the Crank Case [91]{88} from the Housing [52]{49}.
- (d) Wipe off grease from the Piston [41]{38} side and the First Gear [96]{93} side in the Crank Case [91]{88}, and then use a retaining ring puller to remove the Retaining Ring for D40 Hole [87]{84} that retains the Ball Bearing 6203DD [88]{85}, while turning the Crank Shaft [86]{83} so that you can see the Retaining Ring for D40 Hole [87]{84} hole.
- (e) Place the Crank Case [91]{88} on an adequate cradle with its Crank Cover [84]{81} fixing surface facing down, and then use a hand press to press down on the end surface of the Crank Shaft [86]{83}. Then remove the First Gear [96]{93} and Crank Shaft [86]{83} from the Crank Case [91]{88}.



### 3. Disassembly of the motor unit

- (1) Firmly hold the Housing [52]{49} and use a plastic hammer to tap the shaft of the Rotor [102]{99} until the spigot joint of the Gear Cover [99]{96} is removed from the Housing [52]{49}.
- (2) The Rotor [102]{99} has strong magnetic force. Firmly hold the Housing [52]{49} and pull out the Gear Cover [99]{96} from the Housing [52]{49}.

**NOTE:** Without the Gear Cover [99]{96}, the Rotor [102]{99} will be strongly attracted and fixed to the Stator Sensor PCB Set [45]{42} by its own magnetic force. Be careful not to get your hand caught between the Rotor [102]{99} and the Stator Sensor PCB Set [45]{42}.



# Reassembly

Reassembly can be accomplished by reversing the disassembly procedure. However, special attention should be given to the following items.

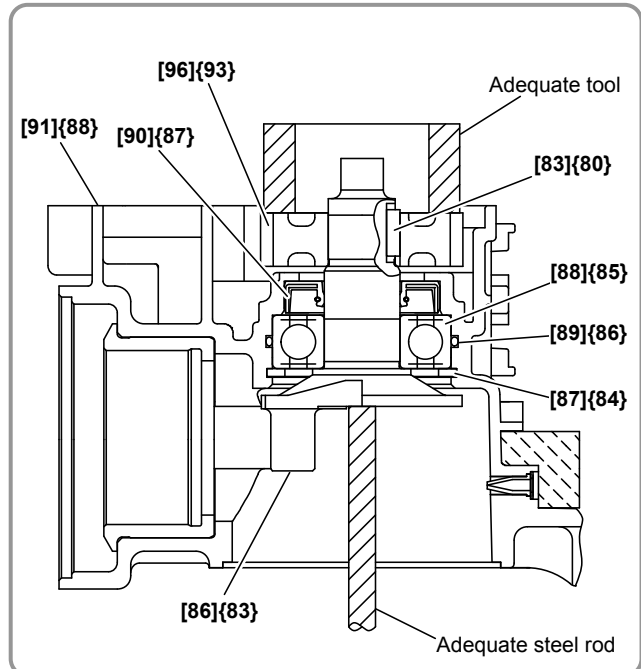
## 1. Reassembly of the hammering mechanism

### (1) Mounting the first gear and crank shaft

- (a) Press-fit Oil Seal (B) [90]{87} to the Crank Case [91]{88}. Mount the O-ring (S-40) [89]{86}. Press-fit the Ball Bearing 6203DD [88]{85}. Use a retaining ring puller to mount the Retaining Ring for D40 Hole [87]{84}. Press-fit the Crank Shaft [86]{83} to the Ball Bearing 6203DD [88]{85}.

- (b) Insert the Feather Key 3 x 3 x 10 [83]{80} into the Crank Shaft [86]{83} groove. Support the plane of the Crank Shaft [86]{83} with an adequate steel rod and use an adequate tool to press-fit the First Gear [96]{93}.

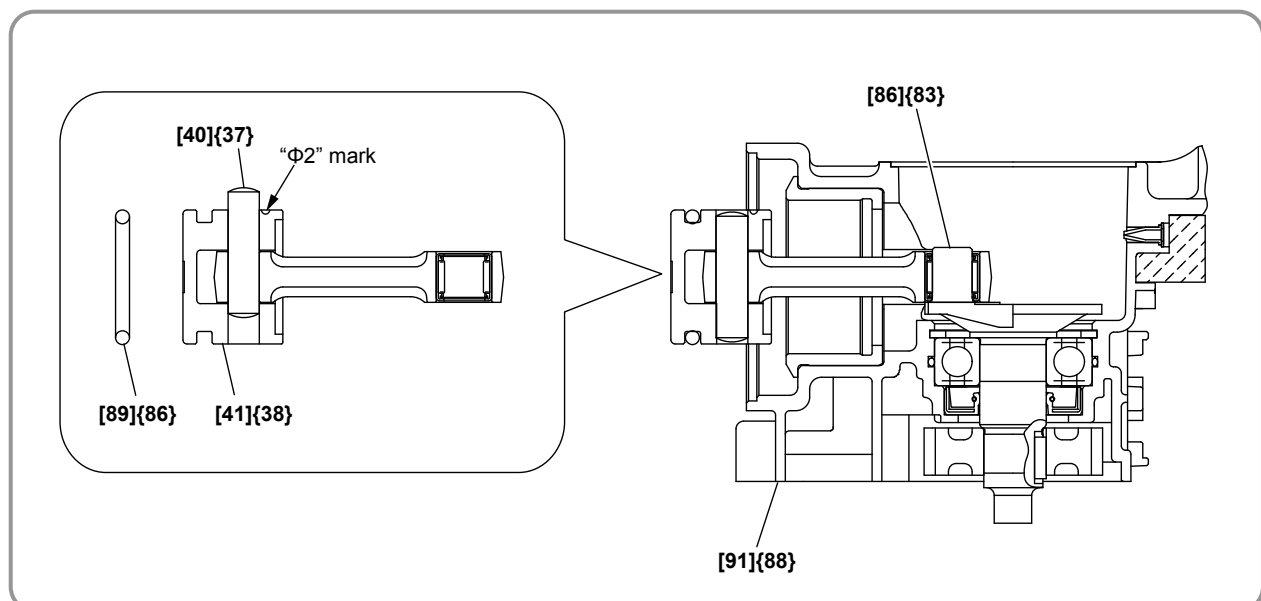
**NOTE:** Prior to press-fitting, make sure the Feather Key 3 x 3 x 10 [83]{80} matches the key groove of the First Gear [96]{93}.



### (2) Mounting the piston

- (a) Insert the Connecting Rod Ass'y [42]{39} into the Piston [41]{38}. Press-fit the Piston Pin [40]{37} into the D8 hole (marked "Φ2") of the Piston [41]{38} being careful not to let the Piston Pin [40]{37} project from the outer diameter of the Piston [41]{38}. Mount the O-ring (S-40) [89]{86} on the Piston [41]{38} to make the piston ass'y.

- (b) Turn the Crank Shaft [86]{83} to the position shown below, and then mount the piston ass'y to the Crank Shaft [86]{83} from the Cylinder Case <19> side of the Crank Case [91]{88}.





(3) Mounting the cylinder and retainer sleeve

- (a) Mount Retainer Damper (B) <22> and Retainer Damper Holder <21> to the Retainer Sleeve <24> in this order.

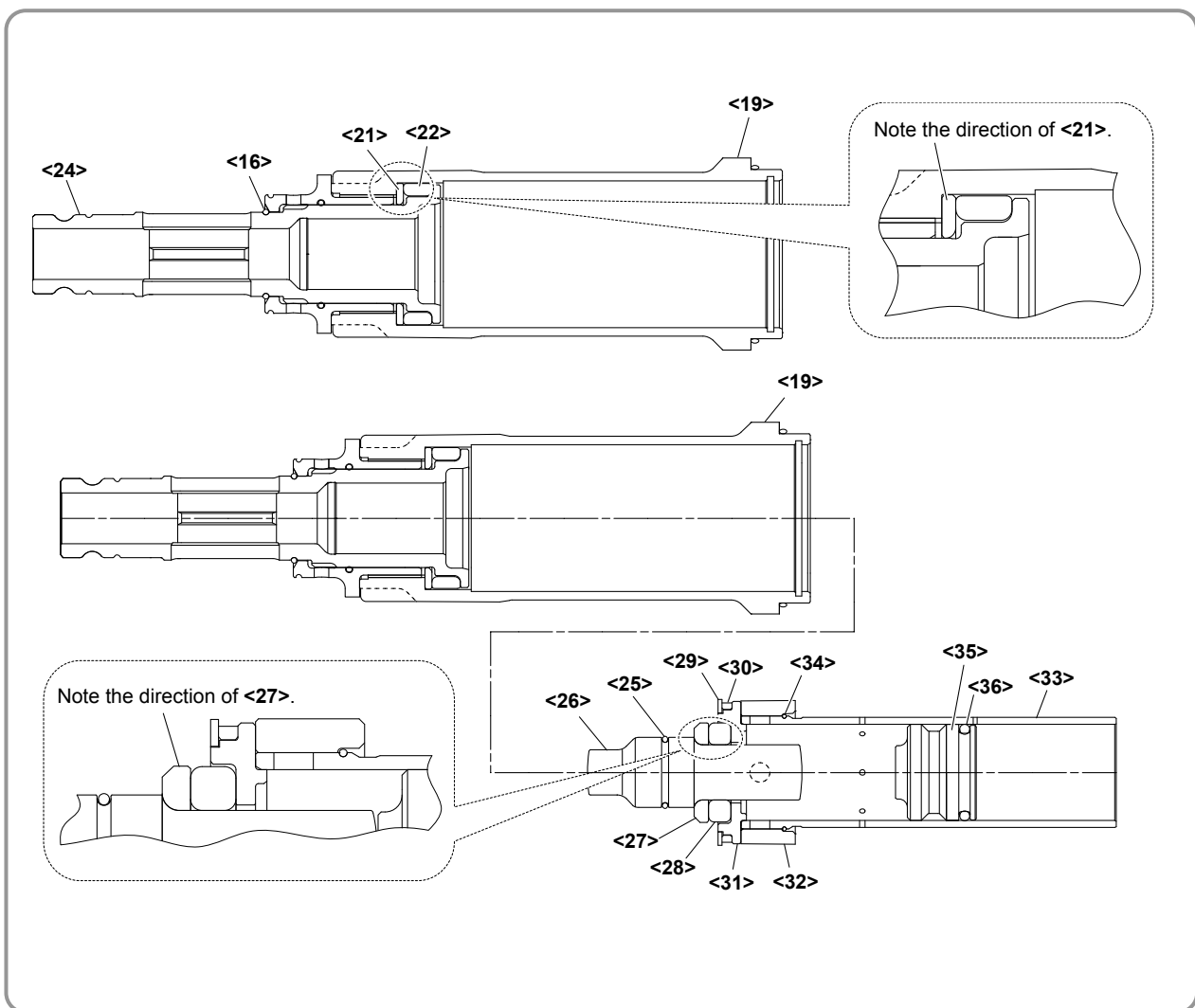
**NOTE: Match the rounded surface of the Retainer Damper Holder <21> with the rounded surface of the Retainer Sleeve <24>.**

- (b) Insert the assembly of the Retainer Sleeve <26> into the Cylinder Case <19> and then mount the Ring <16> to the Retainer Sleeve <24> using a retaining ring puller.

- (c) Insert the Striker <35> mounted with O-ring (I.D 27.2) <36> into the Cylinder <33>. Mount the Stopper Ring <34> to the Cylinder <33> using a retaining ring puller.

- (d) Mount the Cylinder Holder <32>, Damper Holder <31>, Damper (C) <30>, Weight Washer <29>, Damper <28>, Damper Washer <27>, and Second Hammer <25> mounted with O-ring (C) <25> to the Cylinder <33>. Then insert the assembly of the Cylinder <33> into the Cylinder Case <19>.

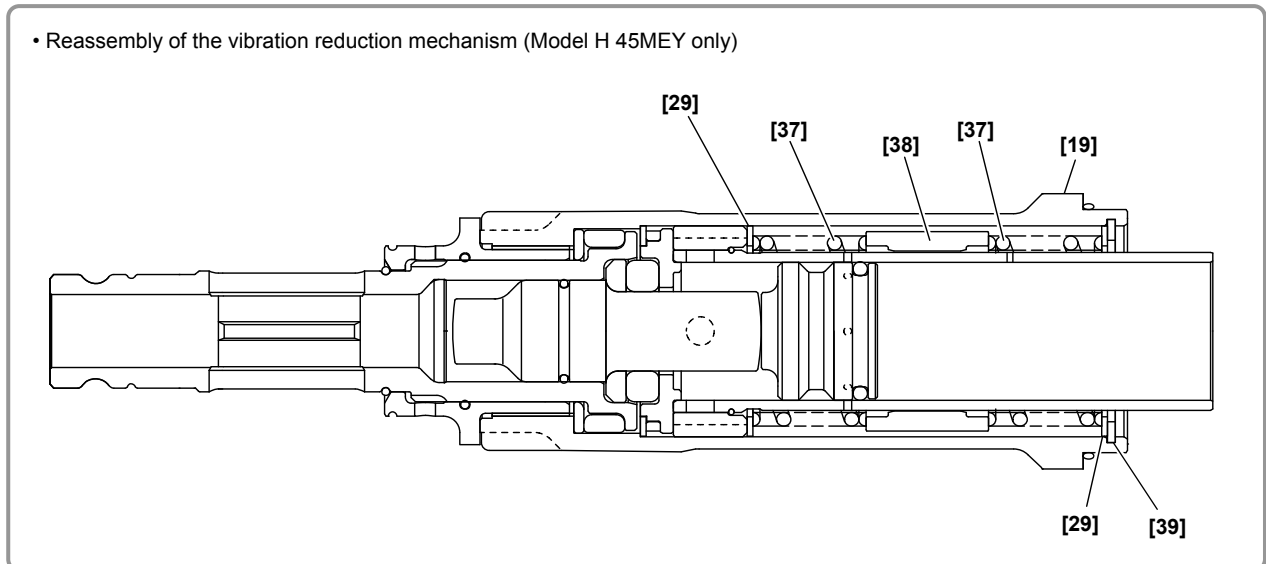
**NOTE: Match the rounded surface of the Damper Washer <27> with the rounded surface of the Second Hammer <26>.**



(4) Reassembly of the vibration reduction mechanism (Model H 45MEY only):

Insert the Weight Washer [29], Weight Spring [37], Weight [38], Weight Spring [37], and Weight Washer [29] into the Cylinder Case [19] in this order. Mount the Retaining Ring for D52 Hole [39] to the Cylinder Case [19] by using a retaining ring puller.

**NOTE: Be careful not to pop out the Weight Springs [37] when mounting the Retaining Ring for D52 Hole [39] to the Cylinder Case [19]. Check that the Retaining Ring for D52 Hole [39] is properly fitted in the groove on the Cylinder Case [19].**



(5) Mounting the valve and felt

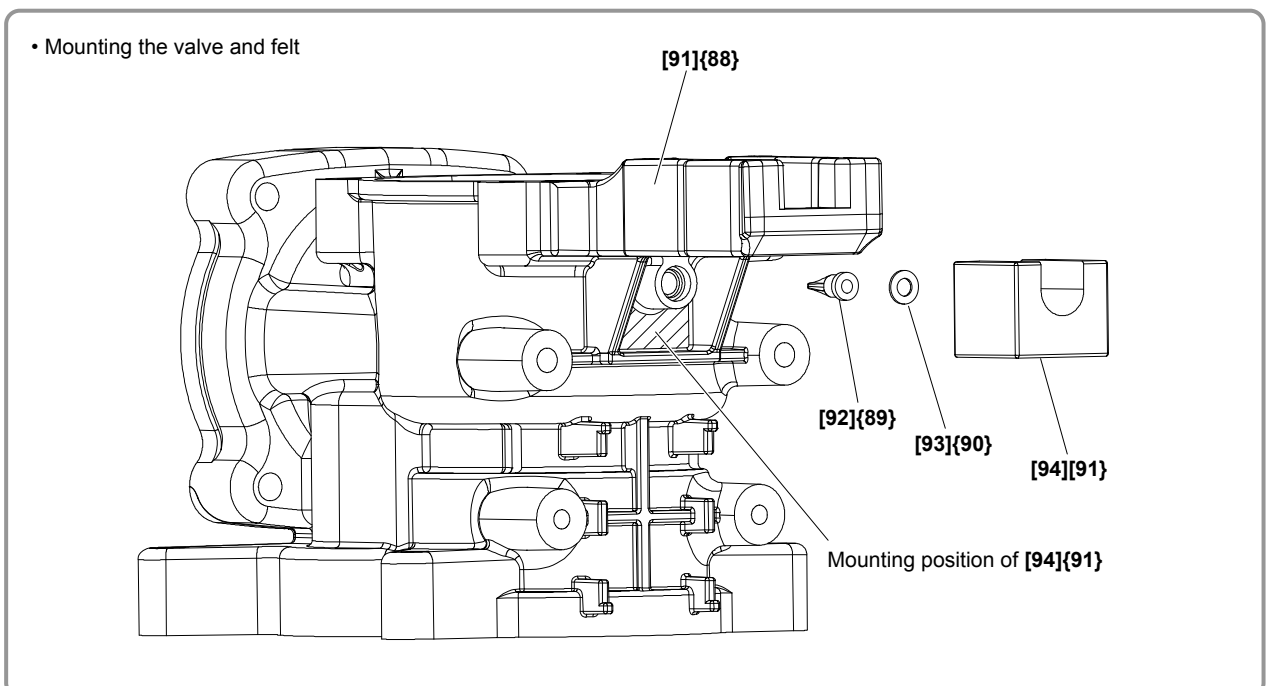
(a) Insert the Valve [92]{89} into the Crank Case [91]{88}. Then mount the Washer M3 [93]{90} to the Valve [92]{89}.

**NOTE: Without the Valve [92]{89}, grease leaks out.**

(b) Insert the Felt [94]{91} into the specified portion in the Crank Case [91]{88} as shown in the figure.

(c) Mount the Back Cover [64]{61} to the Crank Case [91]{88} and secure them with the Bolt M5 x 16 [65]{62}.

**NOTE: Check that the Washer M3 [93]{90} is fitted in the hole of the Crank Case [91]{88} before mounting the Back Cover [64]{61}.**

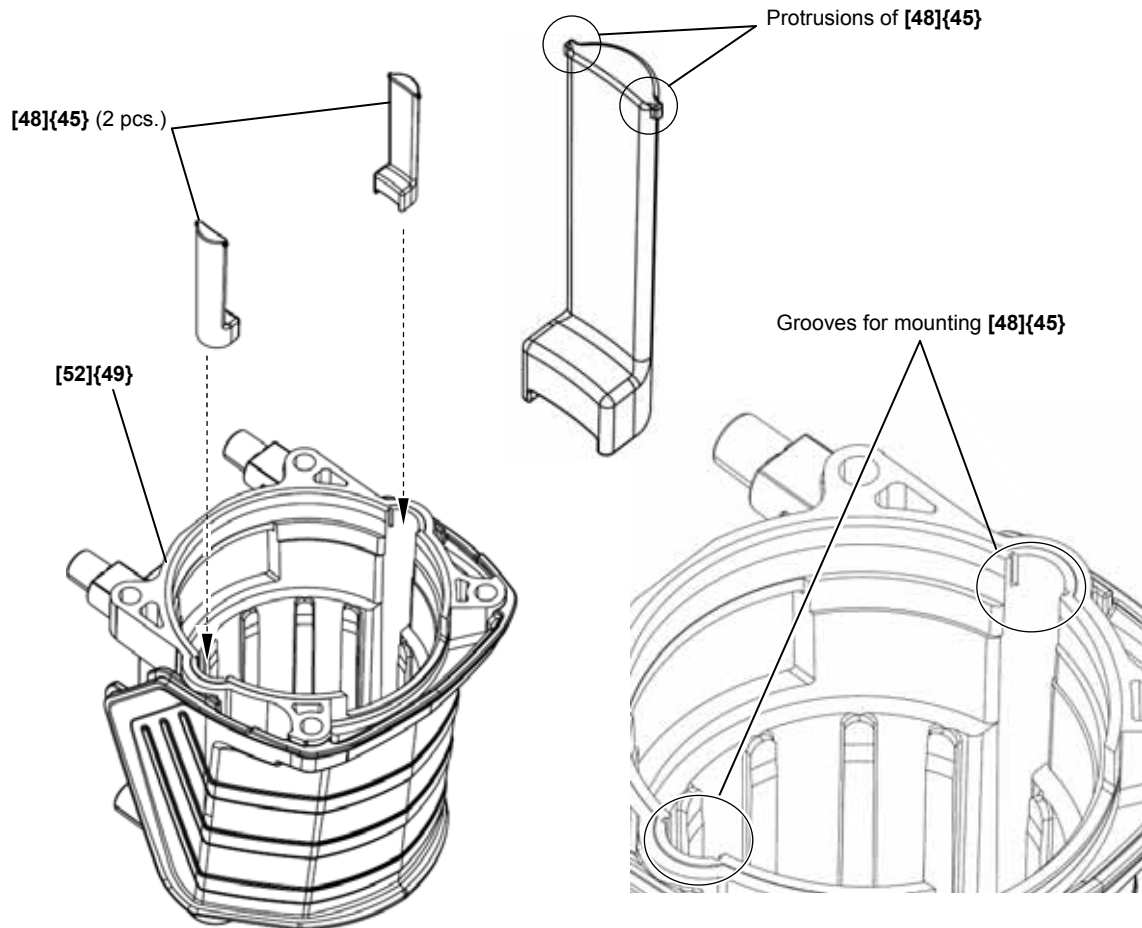


(6) Mounting the spacer

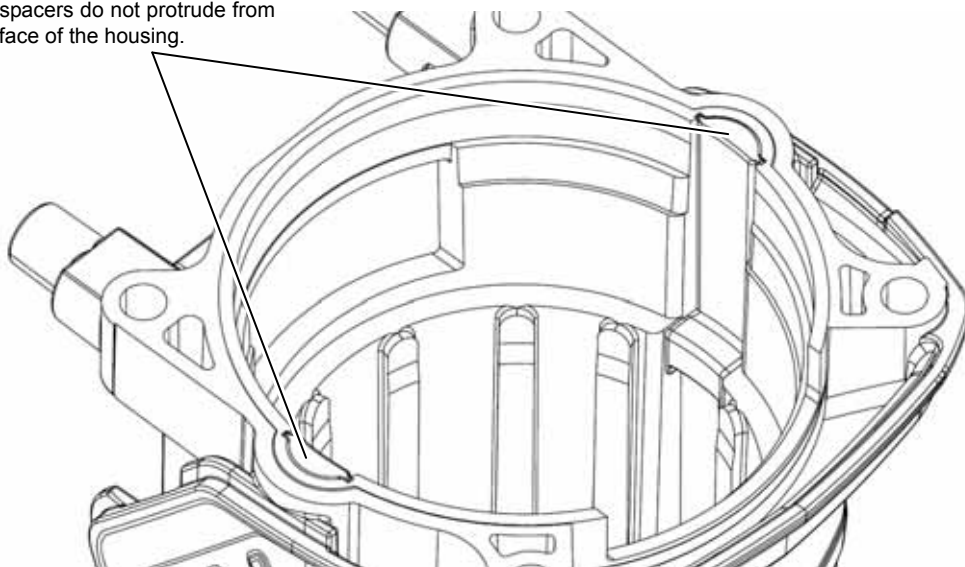
Insert the Spacer [48]{45} into the Housing [52]{49} aligning its two protrusions with the grooves on the Housing [52]{49}. Be careful of the mounting direction of the Spacer [48]{45}. After inserting, push the Spacer [48]{45} deep into the Housing [52]{49} so that the Spacer [48]{45} does not protrude from the end surface of the Housing [52]{49}.

**NOTE: After mounting the Spacer [48]{45}, turn the Housing [52]{49} upside down to check whether the Spacer [48]{45} drops from the Housing [52]{49} or not.**

• Mounting the spacer



Push the spacers deep into the housing so that the spacers do not protrude from the end surface of the housing.



## 2. Reassembly of the power supply unit

### (1) Mounting the rotor ass'y

Before inserting the Rotor [102]{99} into the Housing [52]{49}, mount the Rotor [102]{99} on the Gear Cover [99]{96}.

**NOTE: Without the gear cover, the Rotor [102]{99} will be strongly attracted and fixed to the Stator Sensor PCB Set [45]{42} by its own magnetic force. Be careful not to get your hand caught between the Rotor [102]{99} and the Stator Sensor PCB Set [45]{42}.**

### (2) Wiring of the controller set (See the figure on the next page.)

- Connect the terminals of the three internal wires (red, white, and black) coming from the Stator Sensor PCB Set [45]{42} to the Controller [53]{50} terminals of the same colors. Insert each terminal into the mating terminal securely until it contacts the innermost end.
- Connect the 5-wire connector of the Stator Sensor PCB Set [45]{42} to the Controller [53]{50} connector. Do not reverse the connector orientation.
- Connect the 8-wire connector of the Panel [98]{95} to the Controller [53]{50} connector. Do not reverse the connector orientation.

### (3) Wiring of the filter PCB set (See the figure on the next page.)

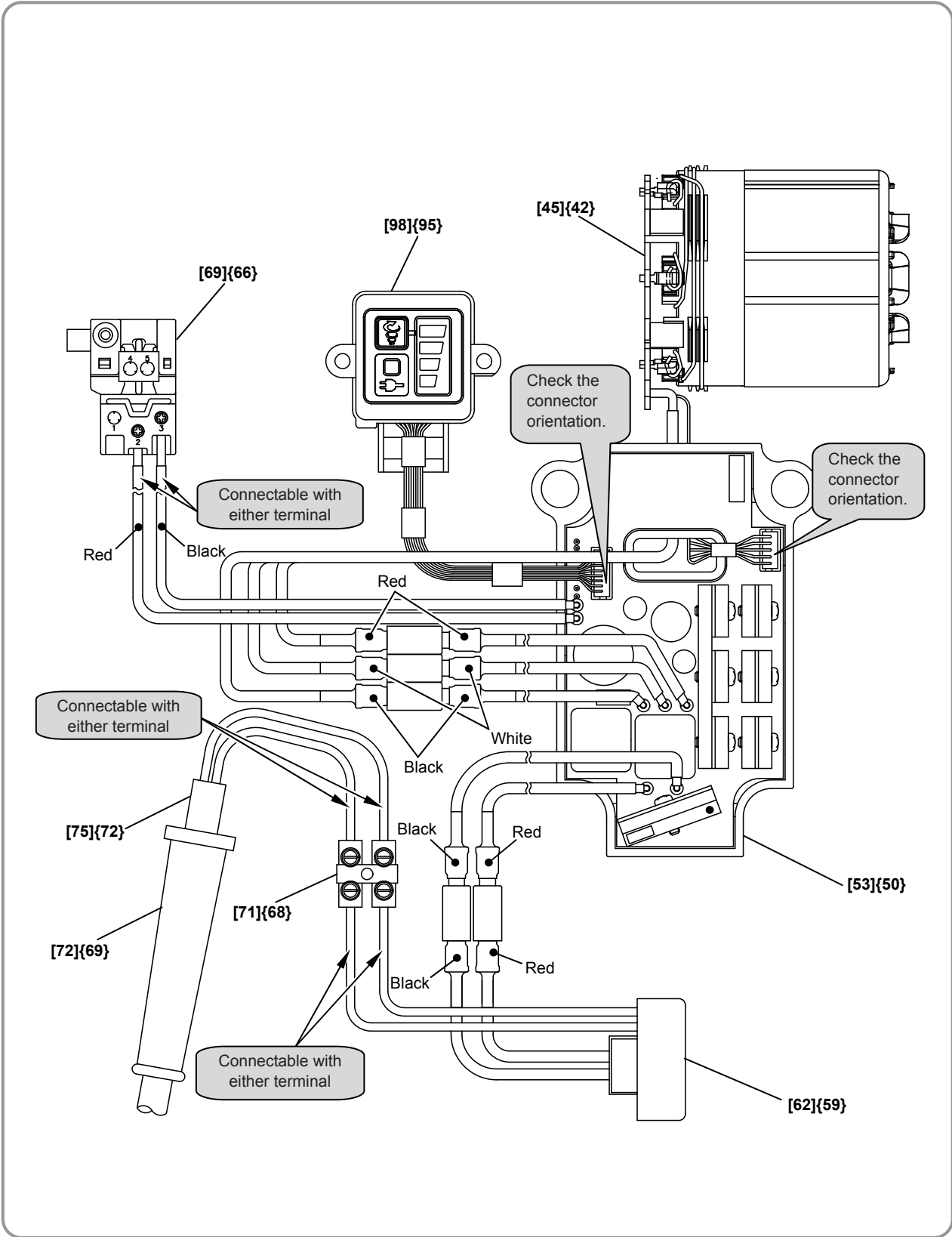
- Connect the two terminal-equipped internal wires of the Controller [53]{50} to those of the Filter PCB Set [62]{59}. The internal wires are connectable with either terminal. Insert each terminal into the mating terminal securely until it contacts the innermost end.
- Connect the two core-exposed internal wires of the Filter PCB Set [62]{59} to Piller Terminal (A) [71]{68}.

### (4) Wiring of the switch (See the figure on the next page.)

- Connect the two core-exposed internal wires of the Controller [53]{50} to the terminals No. 2 and No. 3 of the Switch [69]{66}. The internal wires are connectable with either terminal.

### (5) Wiring of the cord (See the figure on the next page.)

- Connect the core-exposed internal wires of the Cord [75]{72} to Piller Terminal (A) [71]{68}. The internal wires are connectable with either terminal.



## Lubrication points and types of lubricant

Fill specified grease (for the hammer and hammer drill) to the following point.

- Fill 40 g of specified grease in the Crank Case [91]{88} on the Connecting Rod Ass'y [42]{39} side.

Apply specified grease (for the hammer and hammer drill) to the following points.

- Apply specified grease to the inside and outside of the Cylinder <33>, sliding portion of the Striker <35>, and O-ring (S-40) [89]{86} of the Striker <35>.
- Apply specified grease to the inside of the Connecting Rod Ass'y [42]{39}, inside of the Needle Bearing [43]{40}, outside of the Piston [41]{38}, and O-ring (S-40) [89]{86} of the Piston [41]{38}.
- Apply specified grease to the sliding portion of the Second Hammer <26> and O-ring (C) <25> of the Second Hammer <26>.
- Apply specified grease to the inner lips of Oil Seal (B) [90]{87}, inside of the metal in the Crank Case [91]{88}, inside of the Weight [38], Weight Spring [37], Damper <28>, Retainer Damper (B) <22>, Damper (C) <30>, and inside and outside (polished surfaces) of the Retainer Sleeve <24>.

Fill or apply Hitachi Motor Grease No. 29 to the following points.

- Fill a total of 20 g of Hitachi Motor Grease No. 29 in the Crank Case [91]{88} on the First Gear [96]{93} side and the Gear Cover [99]{96} side.
- Apply Hitachi Motor Grease No. 29 to the Needle Bearing (M661) [97]{94}, pinion portion of the Rotor [102]{99}, Bit Lock <23>, and Steel Ball D5 <7>.

- Specified grease (for the hammer and hammer drill)



Net weight	Code No.
500 g	980927
30 g	981840

**CAUTION:** Both viscosity and consistency of the specified grease are optimized for the demolition hammer Models H 45MEY and H 45ME in order to prolong the service life. Therefore, applying ordinary grease intended for other models (e.g. Model DH 40MEY) to the Models H 45MEY and H 45ME may dramatically shorten the product's service life.

## Tightening torque

**CAUTION: Be sure to apply TB1401 screw locking agent to the threads of the following screws and bolts. Otherwise, the screws or bolts loosened by vibration may cause damage to the tool body.**

### M6

- Seal Lock Hex. Socket Hd. Bolt M6 x 45 [49]{46} .....  $9.8 \begin{smallmatrix} +1.96 \\ 0 \end{smallmatrix} \text{ N}\cdot\text{m}$  ( $100 \begin{smallmatrix} +20 \\ 0 \end{smallmatrix} \text{ kgf}\cdot\text{cm}$ )
- Hex. Socket Hd. Bolt (W/Flange) M6 x 25 <18> .....  $9.8 \begin{smallmatrix} +1.96 \\ 0 \end{smallmatrix} \text{ N}\cdot\text{m}$  ( $100 \begin{smallmatrix} +20 \\ 0 \end{smallmatrix} \text{ kgf}\cdot\text{cm}$ )

### M5

- Hex. Socket Hd. Bolt (W/Flange) M5 x 16 [65]{62} .....  $7.84 \begin{smallmatrix} +1.96 \\ 0 \end{smallmatrix} \text{ N}\cdot\text{m}$  ( $80 \begin{smallmatrix} +20 \\ 0 \end{smallmatrix} \text{ kgf}\cdot\text{cm}$ )
- Hex. Socket Hd. Bolt (W/Flange) M5 x 12 <14> .....  $4.9 \begin{smallmatrix} +1.96 \\ 0 \end{smallmatrix} \text{ N}\cdot\text{m}$  ( $50 \begin{smallmatrix} +20 \\ 0 \end{smallmatrix} \text{ kgf}\cdot\text{cm}$ )
- Hex. Socket Hd. Bolt (W/Flange) M5 x 16 [65]{62} .....  $3.92 \pm 0.49 \text{ N}\cdot\text{m}$  ( $40 \pm 5 \text{ kgf}\cdot\text{cm}$ )
- Hex. Socket Hd. Bolt (W/Flange) M5 x 12 <14>  
for mounting the tail cover .....  $4.9 \begin{smallmatrix} +1.96 \\ 0 \end{smallmatrix} \text{ N}\cdot\text{m}$  ( $50 \begin{smallmatrix} +20 \\ 0 \end{smallmatrix} \text{ kgf}\cdot\text{cm}$ )
- Hex. Socket Hd. Bolt (W/Flange) M5 x 12 <14>  
for mounting the cylinder case cover .....  $3.92 \begin{smallmatrix} 0 \\ -0.49 \end{smallmatrix} \text{ N}\cdot\text{m}$  ( $40 \begin{smallmatrix} 0 \\ -5 \end{smallmatrix} \text{ kgf}\cdot\text{cm}$ )

### M4

- Seal Lock Hex. Socket Hd. Bolt M4 x 12 [95]{92} .....  $0.49 \begin{smallmatrix} +0.49 \\ 0 \end{smallmatrix} \text{ N}\cdot\text{m}$  ( $5 \begin{smallmatrix} +5 \\ 0 \end{smallmatrix} \text{ kgf}\cdot\text{cm}$ )

### D5

- Hex. Hd. Tapping Screw D5 x 55 [44]{41} .....  $2.94 \pm 0.49 \text{ N}\cdot\text{m}$  ( $30 \pm 5 \text{ kgf}\cdot\text{cm}$ )
- Tapping Screw (W/Flange) D5 x 25 (Black) [70]{67} .....  $2.94 \pm 0.49 \text{ N}\cdot\text{m}$  ( $30 \pm 5 \text{ kgf}\cdot\text{cm}$ )

### D4

- Tapping Screw (W/Flange) D4 x 16 [74]{71} .....  $1.96 \pm 0.49 \text{ N}\cdot\text{m}$  ( $20 \pm 5 \text{ kgf}\cdot\text{cm}$ )

## Insulation test

After completing disassembly and repair, measure the insulation resistance and dielectric strength.

Insulation resistance: 7 MΩ or higher (as measured with a 500 VDC megohm tester)

Dielectric strength: 4,000 VAC/1 minute, with no abnormalities    220 to 240 V, and 110 V for UK products  
 2,500 VAC/1 minute, with no abnormalities    110 to 127 V (except UK products)

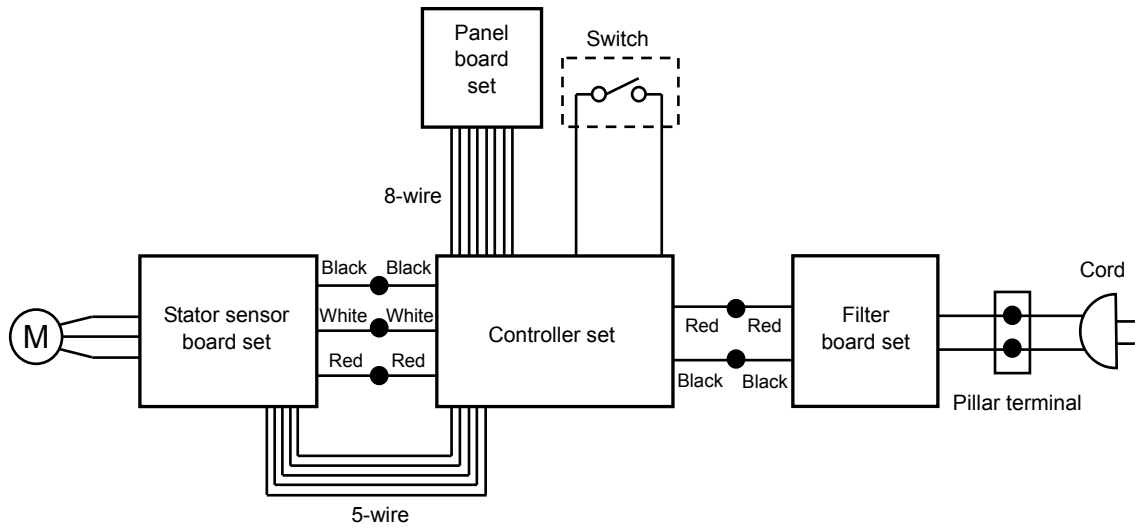
## No-load current value

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

Voltage	110 V	120 V	127 V	220 V	230 V	240 V
Current max.	3.2 A	2.9 A	2.8 A	1.6 A	1.5 A	1.4 A

# Connecting diagram

• Wiring diagram





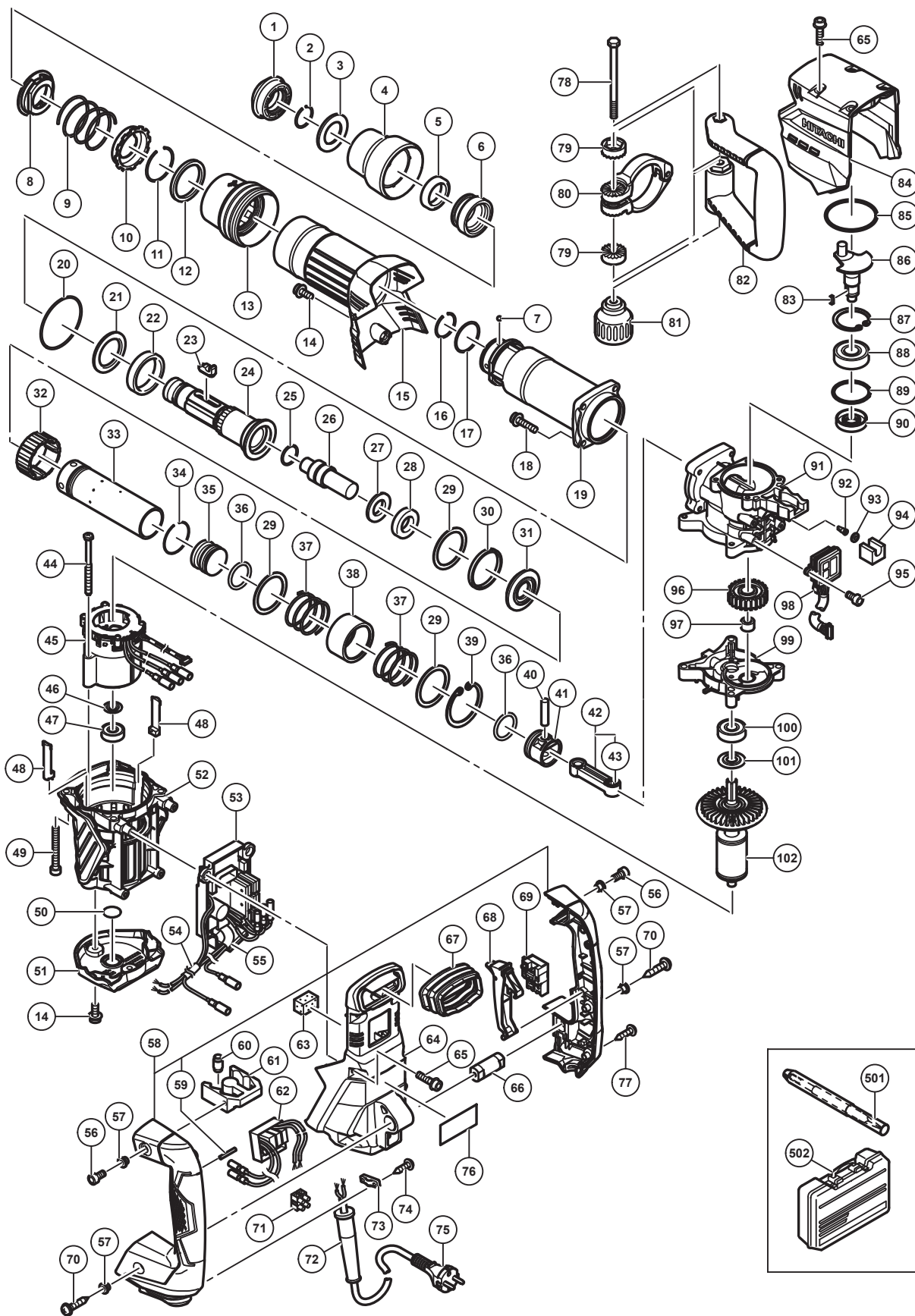
# STANDARD REPAIR TIME (UNIT) SCHEDULES

MODEL	Fixed	Variable	10	20	30	40	50	60	
<div style="border: 1px solid black; padding: 2px; margin-bottom: 5px; display: inline-block;">H 45MEY</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px; display: inline-block;">H 45ME</div>  <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-left: 20px;">General assembly</div>		Work Flow							
			Handle (A).(B) Set Switch Filter PCB Set Cord Cord Armor	Back Cover Transatory Unit	Controller Set Panel			Housing Stator Sensor PCB Set	
			Tail Cover					Gear Cover Rotor Ball Bearing 6201DD Ball Bearing 629VV	
			Crank Cover					Crank Shaft Ball Bearing 6203DD First Gear	Crank Case
			Front Cap Grip Retainer Damper (A) Bit Lock Holder Bit Lock Spring Holder (A) Spring Holder (B) Grip (B) Ball Holder D5 Steel Ball Cylinder Case Cover	O-ring (S-35) Cylinder Case Cylinder Striker O-ring (1AS-60) Cylinder Holder Damper Holder Damper Damper (C) O-ring (C) Second Hammer O-ring (I.D 27.2)	Retainer Sleeve Retainer Damper (B) Retainer Damper Holder				
					Piston O-ring (I.D 27.2) Connecting Rod Ass'y				

## ELECTRIC TOOL PARTS LIST

### DEMOLITION HAMMER Model H 45MEY

2016·6·2  
(E1)



**PARTS**

H 45MEY

ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS
1	337562	FRONT CAP	1	
2	318590	STOPPER RING	1	
3	370172	RETAINER WASHER	1	
4	370173	GRIP	1	
5	339053	RETAINER DAMPER (A)	1	
6	337558	BIT LOCK HOLDER	1	
7	370239	STEEL BALL D5	4	
8	370242	SPRING HOLDER (A)	1	
9	370243	RETAINER SPRING	1	
10	370244	SPRING HOLDER (B)	1	
11	333255	STOPPER RING	1	
12	370240	BALL HOLDER	1	
13	370241	GRIP (B)	1	
14	998471	HEX. SOCKET HD. BOLT (W/FLANGE) M5 X 12	3	
15	370238	CYLINDER CASE COVER	1	
16	320803	RING	1	
17	337664	O-RING (S-35)	1	
18	991712	HEX. SOCKET HD. BOLT (W/FLANGE) M6 X 25	4	
19	370226	CYLINDER CASE	1	
20	956996	O-RING (1AS-60)	1	
21	337549	RETAINER DAMPER HOLDER	1	
22	337548	RETAINER DAMPER (B)	1	
23	337554	BIT LOCK	2	
24	370227	RETAINER SLEEVE	1	
25	324921	O-RING (C)	1	
26	370228	SECOND HAMMER	1	
27	370229	DAMPER WASHER	1	
28	370259	DAMPER	1	
29	370230	WEIGHT WASHER	3	
30	326662	DAMPER (C)	1	
31	370231	DAMPER HOLDER	1	
32	370232	CYLINDER HOLDER	1	
33	370233	CYLINDER	1	
34	370235	STOPPER RING	1	
35	370234	STRIKER	1	
36	325297	O-RING (I.D 27.2)	2	
37	370236	WEIGHT SPRING	2	
38	370237	WEIGHT	1	
39	967270	RETAINING RING FOR D52 HOLE	1	
40	324917	PISTON PIN	1	
41	324915	PISTON	1	
42	339049	CONNECTING ROD ASS'Y	1	INCLUD.43
43	335303	NEEDLE BEARING	1	
44	953174	HEX. HD. TAPPING SCREW D5 X 55	2	
* 45	340934	STATOR SENSOR PCB SET 100V-127V	1	
* 45	340885E	STATOR SENSOR PCB SET 220V-240V	1	
46	958915	WASHER (A)	1	
47	629VVM	BALL BEARING 629VVC2PS2L	1	
48	339910	SPACER	2	
49	986940	SEAL LOCK HEX. SOCKET HD. BOLT M6 X 45	4	

**PARTS**

H 45MEY

ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS
50	333263	DUST SEAL	1	
51	370002	TAIL COVER	1	
52	370251	HOUSING	1	
* 53	370249	CONTROLLER 100V-127V	1	
* 53	370250	CONTROLLER 220V-240V	1	
54	370074	VINYL TUBE L50	1	
55	370073	VINYL TUBE L35	1	
56	991690	SEAL LOCK HEX. SOCKET HD. BOLT M5 X 12	2	
57	991711	DISTANCE PIECE (B)	4	
58	370258	HANDLE (A).(B) SET	1	INCLUD.59
59	949890	PIN D3X20 (10 PCS.)	1	
60	310124	HANDLE DAMPER	4	
61	310123	TRANSATORY UNIT	1	
* 62	337585	FILTER PCB SET 100V-127V	1	
* 62	337586	FILTER PCB SET 220V-240V	1	
63	338447	SPONGE (B)	1	
64	370246	BACK COVER	1	
65	994192	HEX. SOCKET HD. BOLT (W/FLANGE) M5 X 16	10	
66	370253	HANDLE SHAFT	1	
67	337591	BELLOWS	1	
68	370254	TRIGGER	1	
69	337587	SWITCH	1	
70	305558	TAPPING SCREW (W/FLANGE) D5 X 25 (BLACK)	2	
71	958308Z	PILLAR TERMINAL (A)	1	
* 72	940778	CORD ARMOR D10.7	1	
* 72	958049	CORD ARMOR D8.2	1	
73	960266	CORD CLIP	1	
74	984750	TAPPING SCREW (W/FLANGE) D4 X 16	2	
* 75	321537	CORD	1	(CORD ARMOR D10.7)
* 75	500434Z	CORD	1	(CORD ARMOR D10.7) FOR USA,CAN,PAN (120V)
* 75	500408Z	CORD	1	(CORD ARMOR D8.2) FOR AUS,NZL
* 75	500390Z	CORD	1	(CORD ARMOR D10.7) FOR PAN (220V)
* 75	500465Z	CORD	1	(CORD ARMOR D10.7) FOR GBR (110V)
* 75	500446Z	CORD	1	(CORD ARMOR D10.7) FOR GBR (230V)
* 75	500487Z	CORD	1	(CORD ARMOR D8.2) FOR BRA
* 75	500424Z	CORD	1	(CORD ARMOR D8.2) FOR MAL
76		NAME PLATE	1	
77	301653	TAPPING SCREW (W/FLANGE) D4 X 20 (BLACK)	3	
78	333228	BOLT M8	1	
79	333202	HANDLE HOLDER (B)	2	
80	370247	HANDLE HOLDER	1	
81	333201	GRIP	1	
82	333199	SIDE HANDLE	1	
83	940533	FEATHER KEY 3 X 3 X 10	1	
84	370256	CRANK COVER	1	
85	876433	CYLINDER O-RING (B) I.D 55.9	1	
86	370225	CRANK SHAFT	1	
87	948391	RETAINING RING FOR D40 HOLE	1	
88	6203DD	BALL BEARING 6203DDCMPS2L	1	
89	996363	O-RING (S-40)	1	

**PARTS**

H 45MEY

ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS
90	321274	OIL SEAL (B)	1	
91	370224	CRANK CASE	1	
92	995396	VALVE	1	
93	949422	WASHER M3 (10 PCS.)	1	
94	370245	FELT	1	
95	983162	SEAL LOCK HEX. SOCKET HD. BOLT M4 X 12	2	
96	337532	FIRST GEAR	1	
97	939299	NEEDLE BEARING (M661)	1	
98	337581	PANEL	1	
99	370252	GEAR COVER	1	
100	6201DD	BALL BEARING 6201DDCMPS2L	1	
101	302429	DUST WASHER (B)	1	
102	337578	ROTOR	1	

**STANDARD ACCESSORIES**

ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS
501	313471	BULL POINT (SDS MAX) 280L	1	
502	337594	CASE (PLASTIC)	1	

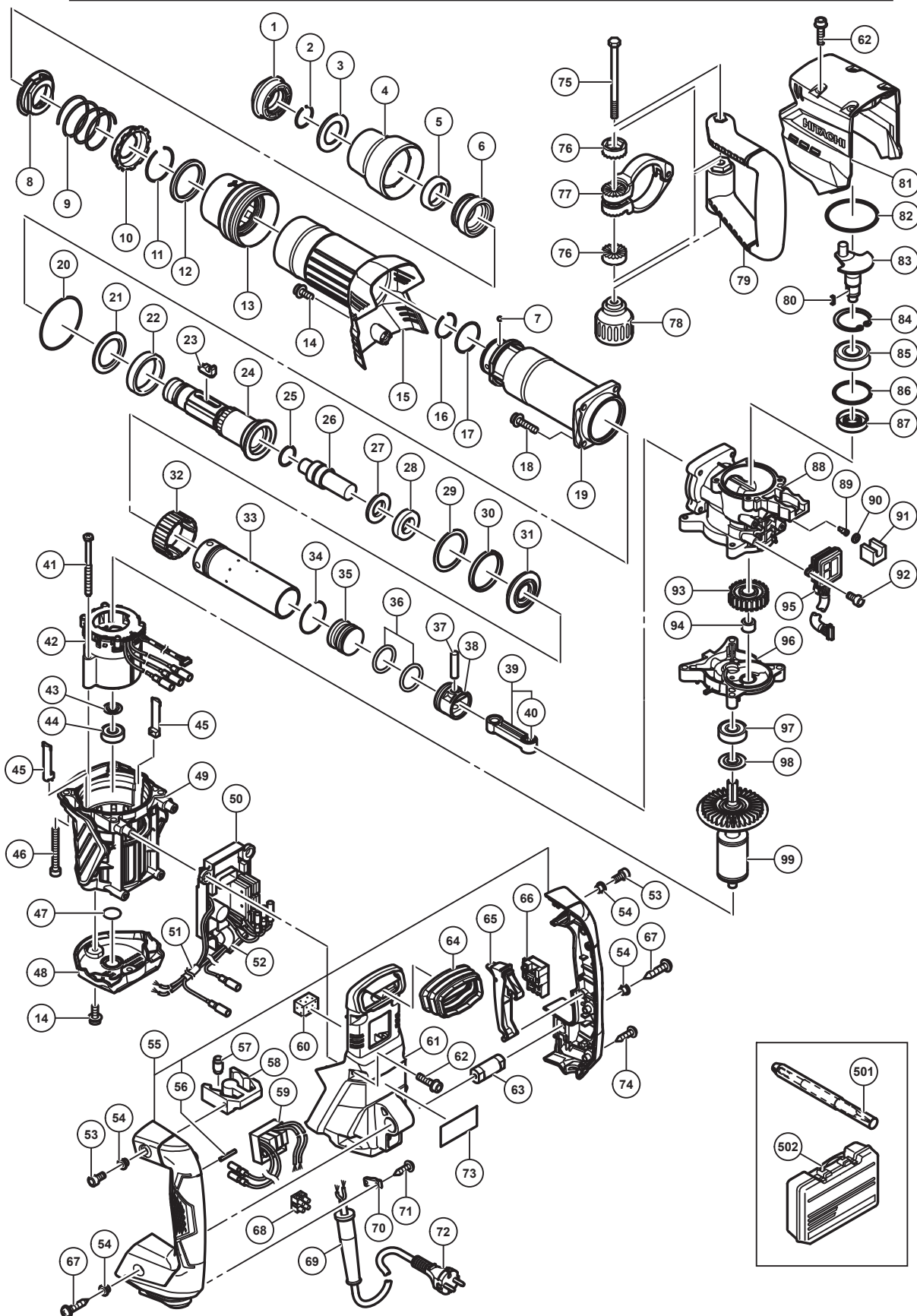
**OPTIONAL ACCESSORIES**

ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS
601	981840	GREASE (A) FOR HAMMER.HAMMER DRILL (30G)	1	
602	308471	GREASE FOR HAMMER.HAMMER DRILL (70G)	1	
* 603	980927	GREASE FOR HAMMER.HAMMER DRILL (500G)	1	EXCEPT FOR USA,CAN
604	313471	BULL POINT (SDS MAX) 280L	1	
605	313472	BULL POINT (SDS MAX) 400L	1	
606	313473	COLD CHISEL (SDS MAX) 280MM	1	
607	313474	COLD CHISEL (SDS MAX) 400MM	1	
608	313475	CUTTER (SDS MAX) W50 X 400L	1	
609	313476	SCOOP (SDS MAX) 400L	1	
610	313477	BUSHING TOOL (SDS MAX)	1	
611	313478	RAMMER (SDS MAX) 150MM X 150MM	1	
612	313479	SHANK (SDS MAX) FOR RAMMER,BUSHING TOOL	1	

## ELECTRIC TOOL PARTS LIST

### DEMOLITION HAMMER Model H 45ME

2016·6·2  
(E1)



**PARTS**

H 45ME

ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS
1	337562	FRONT CAP	1	
2	318590	STOPPER RING	1	
3	370172	RETAINER WASHER	1	
4	370173	GRIP	1	
5	339053	RETAINER DAMPER (A)	1	
6	337558	BIT LOCK HOLDER	1	
7	370239	STEEL BALL D5	4	
8	370242	SPRING HOLDER (A)	1	
9	370243	RETAINER SPRING	1	
10	370244	SPRING HOLDER (B)	1	
11	333255	STOPPER RING	1	
12	370240	BALL HOLDER	1	
13	370241	GRIP (B)	1	
14	998471	HEX. SOCKET HD. BOLT (W/FLANGE) M5 X 12	3	
15	370238	CYLINDER CASE COVER	1	
16	320803	RING	1	
17	337664	O-RING (S-35)	1	
18	991712	HEX. SOCKET HD. BOLT (W/FLANGE) M6 X 25	4	
19	370226	CYLINDER CASE	1	
20	956996	O-RING (1AS-60)	1	
21	337549	RETAINER DAMPER HOLDER	1	
22	337548	RETAINER DAMPER (B)	1	
23	337554	BIT LOCK	2	
24	370227	RETAINER SLEEVE	1	
25	324921	O-RING (C)	1	
26	370228	SECOND HAMMER	1	
27	370229	DAMPER WASHER	1	
28	370259	DAMPER	1	
29	370230	WEIGHT WASHER	1	
30	326662	DAMPER (C)	1	
31	370231	DAMPER HOLDER	1	
32	370232	CYLINDER HOLDER	1	
33	370233	CYLINDER	1	
34	370235	STOPPER RING	1	
35	370234	STRIKER	1	
36	325297	O-RING (I.D 27.2)	2	
37	324917	PISTON PIN	1	
38	324915	PISTON	1	
39	339049	CONNECTING ROD ASS'Y	1	INCLUD.40
40	335303	NEEDLE BEARING	1	
41	953174	HEX. HD. TAPPING SCREW D5 X 55	2	
* 42	340934	STATOR SENSOR PCB SET 100V-127V	1	
* 42	340885E	STATOR SENSOR PCB SET 220V-240V	1	
43	958915	WASHER (A)	1	
44	629VVM	BALL BEARING 629VVC2PS2L	1	
45	339910	SPACER	2	
46	986940	SEAL LOCK HEX. SOCKET HD. BOLT M6 X 45	4	
47	333263	DUST SEAL	1	
48	370002	TAIL COVER	1	
49	370251	HOUSING	1	

**PARTS**

H 45ME

ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
*	50	370249	CONTROLLER 100V-127V	1	
*	50	370250	CONTROLLER 220V-240V	1	
	51	370074	VINYL TUBE L50	1	
	52	370073	VINYL TUBE L35	1	
	53	991690	SEAL LOCK HEX. SOCKET HD. BOLT M5 X 12	2	
	54	991711	DISTANCE PIECE (B)	4	
	55	370258	HANDLE (A).(B) SET	1	INCLUD.56
	56	949890	PIN D3X20 (10 PCS.)	1	
	57	310124	HANDLE DAMPER	4	
	58	310123	TRANSATORY UNIT	1	
*	59	337585	FILTER PCB SET 100V-127V	1	
*	59	337586	FILTER PCB SET 220V-240V	1	
	60	338447	SPONGE (B)	1	
	61	370246	BACK COVER	1	
	62	994192	HEX. SOCKET HD. BOLT (W/FLANGE) M5 X 16	10	
	63	370253	HANDLE SHAFT	1	
	64	337591	BELLOWS	1	
	65	370254	TRIGGER	1	
	66	337587	SWITCH	1	
	67	305558	TAPPING SCREW (W/FLANGE) D5 X 25 (BLACK)	2	
	68	958308Z	PILLAR TERMINAL (A)	1	
*	69	940778	CORD ARMOR D10.7	1	
*	69	958049	CORD ARMOR D8.2	1	
	70	960266	CORD CLIP	1	
	71	984750	TAPPING SCREW (W/FLANGE) D4 X 16	2	
*	72	321537	CORD	1	(CORD ARMOR D10.7)
*	72	500424Z	CORD	1	(CORD ARMOR D8.2) FOR UAE,MAL
*	72	500465Z	CORD	1	(CORD ARMOR D10.7) FOR GBR (110V)
*	72	500446Z	CORD	1	(CORD ARMOR D10.7) FOR GBR (230V)
*	72	500235Z	CORD	1	(CORD ARMOR D8.2) FOR IND
*	72	500487Z	CORD	1	(CORD ARMOR D8.2) FOR BRA
*	72	500434Z	CORD	1	(CORD ARMOR D10.7) FOR MEX
	73		NAME PLATE	1	
	74	301653	TAPPING SCREW (W/FLANGE) D4 X 20 (BLACK)	3	
	75	333228	BOLT M8	1	
	76	333202	HANDLE HOLDER (B)	2	
	77	370247	HANDLE HOLDER	1	
	78	333201	GRIP	1	
	79	333199	SIDE HANDLE	1	
	80	940533	FEATHER KEY 3 X 3 X 10	1	
	81	370248	CRANK COVER	1	
	82	876433	CYLINDER O-RING (B) I.D 55.9	1	
	83	370225	CRANK SHAFT	1	
	84	948391	RETAINING RING FOR D40 HOLE	1	
	85	6203DD	BALL BEARING 6203DDCMPS2L	1	
	86	996363	O-RING (S-40)	1	
	87	321274	OIL SEAL (B)	1	
	88	370224	CRANK CASE	1	
	89	995396	VALVE	1	
	90	949422	WASHER M3 (10 PCS.)	1	



**PARTS**

H 45ME

ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS
91	370245	FELT	1	
92	983162	SEAL LOCK HEX. SOCKET HD. BOLT M4 X 12	2	
93	337532	FIRST GEAR	1	
94	939299	NEEDLE BEARING (M661)	1	
95	337581	PANEL	1	
96	370252	GEAR COVER	1	
97	6201DD	BALL BEARING 6201DDCMPS2L	1	
98	302429	DUST WASHER (B)	1	
99	337578	ROTOR	1	

**STANDARD ACCESSORIES**

ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS
501	313471	BULL POINT (SDS MAX) 280L	1	
502	337594	CASE (PLASTIC)	1	

**OPTIONAL ACCESSORIES**

ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS
601	981840	GREASE (A) FOR HAMMER.HAMMER DRILL (30G)	1	
602	308471	GREASE FOR HAMMER.HAMMER DRILL (70G)	1	
603	980927	GREASE FOR HAMMER.HAMMER DRILL (500G)	1	
604	313471	BULL POINT (SDS MAX) 280L	1	
605	313472	BULL POINT (SDS MAX) 400L	1	
606	313473	COLD CHISEL (SDS MAX) 280MM	1	
607	313474	COLD CHISEL (SDS MAX) 400MM	1	
608	313475	CUTTER (SDS MAX) W50X400L	1	
609	313476	SCOOP (SDS MAX) 400L	1	
610	313477	BUSHING TOOL (SDS MAX)	1	
611	313478	RAMMER (SDS MAX) 150MM X 150MM	1	
612	313479	SHANK (SDS MAX) FOR RAMMER,BUSHING TOOL	1	