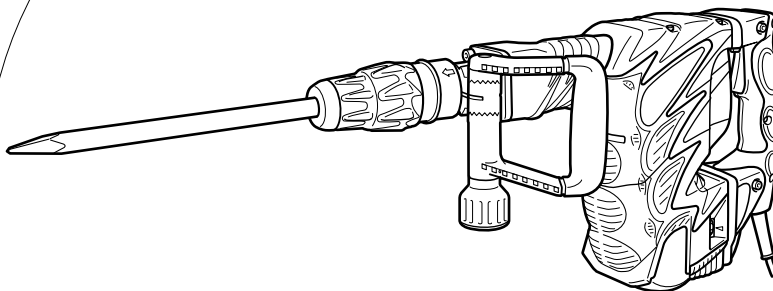


# HITACHI

## Demolition Hammer Model H 60MRV

### Handling instructions



**Note:**

Before using this Electric Power Tool, carefully read through these HANDLING INSTRUCTIONS to ensure efficient, safe operation. It is recommended that these INSTRUCTIONS be kept readily available as an important reference when using this power tool.



**Hitachi Koki**

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## GENERAL SAFETY RULES

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### WARNING!

#### Read all instructions

Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

The term "power tool" in all of the warnings listed below refers to your mains operated (corded) power tool or battery operated (cordless) power tool.

### SAVE THESE INSTRUCTIONS

#### 1) Work area

- a) **Keep work area clean and well lit.**  
*Cluttered and dark areas invite accidents.*
- b) **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.**  
*Power tools create sparks which may ignite the dust of fumes.*
- c) **Keep children and bystanders away while operating a power tool.**  
*Distractions can cause you to lose control.*

#### 2) Electrical safety

- a) **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.**  
*Unmodified plugs and matching outlets will reduce risk of electric shock.*
- b) **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.**  
*There is an increased risk of electric shock if your body is earthed or grounded.*
- c) **Do not expose power tools to rain or wet conditions.**  
*Water entering a power tool will increase the risk of electric shock.*
- d) **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.**  
*Damaged or entangled cords increase the risk of electric shock.*
- e) **When operating a power tool outdoors, use an extension cord suitable for outdoor use.**  
*Use of a cord suitable for outdoor use reduces the risk of electric shock*

#### 3) Personal safety

- a) **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.**  
*A moment of inattention while operating power tools may result in serious personal injury.*
- b) **Use safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.**
- c) **Avoid accidental starting. Ensure the switch is in the off position before plugging in.**  
*Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.*

- d) **Remove any adjusting key or wrench before turning the power tool on.**  
*A wrench or a key left attached to a rotating part of the power tool may result in personal injury.*
- e) **Do not overreach. Keep proper footing and balance at all times.**

*This enables better control of the power tool in unexpected situations.*

- f) **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.**  
*Loose clothes, jewellery or long hair can be caught in moving parts.*
- g) **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.**  
*Use of these devices can reduce dust related hazards.*

#### 4) Power tool use and care

- a) **Do not force the power tool. Use the correct power tool for your application.**  
*The correct power tool will do the job better and safer at the rate for which it was designed.*
- b) **Do not use the power tool if the switch does not turn it on and off.**  
*Any power tool that cannot be controlled with the switch is dangerous and must be repaired.*
- c) **Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools.**  
*Such preventive safety measures reduce the risk of starting the power tool accidentally.*
- d) **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.**
- e) **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.**
- f) **Keep cutting tools sharp and clean.**  
*Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.*
- g) **Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed.**  
*Use of the power tool for operations different from intended could result in a hazardous situation.*

#### 5) Service

- a) **Have your power tool serviced by a qualified repair person using only identical replacement parts.**  
*This will ensure that the safety of the power tool is maintained.*

### PRECAUTION

Keep children and infirm persons away. When not in use, tools should be stored out of reach of children and infirm persons.

## PRECAUTIONS ON USING DEMOLITION HAMMER

1. Wear earplugs to protect your ears during operation.
2. Do not touch the bit during or immediately after operation. The bit becomes very hot during operation and could cause serious burns.
3. Before starting to break, chip or drill into a wall, floor or ceiling, thoroughly confirm that such items as electric cables or conduits are not buried inside.
4. Wear a mask when turning your head upward.
5. Properly set the bit holder
6. At the start of work, confirm screw tightening.
7. When working at a highly elevated location, pay attention to articles and persons below.
8. Wear protective shoes to protect your feet.

## SPECIFICATIONS

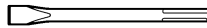
Voltage (by areas)*	(110 V, 230 V, 240 V)~
Power Input	1350 W*
Full-load Impact Rate	930 – 1650 min <sup>-1</sup>
Weight (without cord, side handle)	10.5 kg

\*Be sure to check the nameplate on product as it is subject to change by areas.

## STANDARD ACCESSORIES

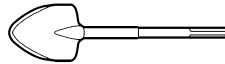
- (1) Case ..... 1
  - (2) Bull Point (SDS-max shank) ..... 1
  - (3) Side Handle ..... 1
  - (4) Hexagon Bar Wrench (for 8 mm screw) ..... 1
- Standard accessories are subject to change without notice.

- Groove digging and edging



- (1) Cold chisel  
Overall length: 280, 400 mm

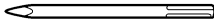
- Scooping Work



- (1) Scoop

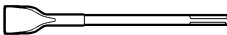
## OPTIONAL ACCESSORIES (sold separately)

- Demolishing



- (1) Bull Point  
Overall Length: 280, 400 mm

- Asphalt Cutting



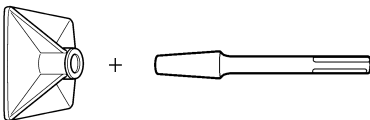
- (1) Cutter

- Surface Roughing



- (1) Bushing Tool                      (2) Shank

- Tamping



- (1) Rammer                              (2) Shank

- Hammer Grease A  
500 g (in a can)  
70 g (in a tube)  
30 g (in a tube)

Optional accessories are subject to change without notice.

## APPLICATIONS

Demolishing concrete, chipping off concrete, grooving, bar cutting, and driving piles.

Application examples:

Installation of piping and wiring, sanitary facility installation, machinery installation, water supply and drainage work, interior jobs, harbor facilities and other civil engineering work.

## PRIOR TO OPERATION

### 1. Power source

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

## 2. Power switch

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

## 3. Extension cord

When the work area is removed 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. Installing Tools

### CAUTION

Be sure to switch power OFF and disconnect the plug from the receptacle to avoid serious trouble.

### NOTE

When using tools such as bull points, cutters, etc., make sure to use the genuine parts designated by our company.

- (1) Clean the shank portion of the tool.
- (2) As shown in Fig. 1, pull grip (A) in the direction of (A), and insert the tool into a hole of the front cap.
- (3) Adjust the groove position while turning the tool, and furthermore insert it until it hits the end of the hole.
- (4) Return grip (A) to its original position, pull the tool and make sure it is locked completely (Fig. 2).

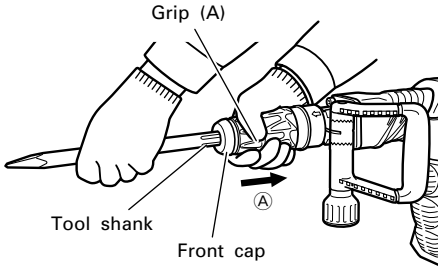


Fig. 1

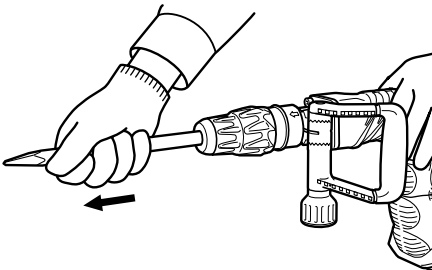


Fig. 2

## 5. Deciding Working Position of Tool

The tool can be turned every 30 degrees and can be fixed at the position of 12 steps.

- (1) As shown in Fig. 3, if the grip (A) is turned in the direction of (B) in a state where the grip (B) is pushed in the direction of (A), the blade angle can be changed freely to any desired position.

- (2) Release grip (B) and turn the tool, and make sure that it is locked completely.

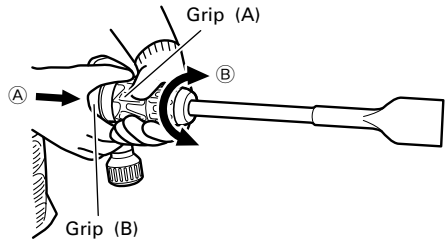


Fig. 3

## 6. Removing Tool

As shown in Fig. 1, pull grip (A), and pull out the tool.

### CAUTION

Be sure to grip the handle and side handle during work. Do not hold by the grip (A) during work. If you pull it by mistake, the bull point could jump out.

## 7. Move the side handle

The side handle can be fixed at any desired position; 360 degrees, and can also be fixed at any position in the back-and-forth direction.

- (1) Loosen the handle by turning the grip in the direction of (A) as shown in Fig. 4.
- (2) Adjust it to a position where vertical (up-and-down) operation can be facilitated as illustrated in Fig. 5, Fig. 6, and Fig. 7.
- (3) Turn the grip in the direction of (B) and fix the handle.

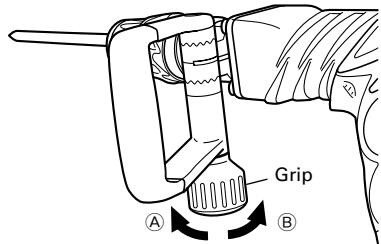


Fig. 4

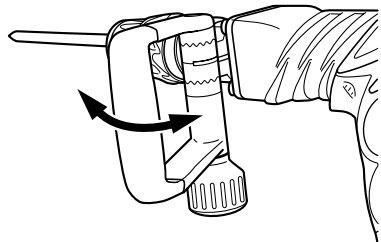


Fig. 5

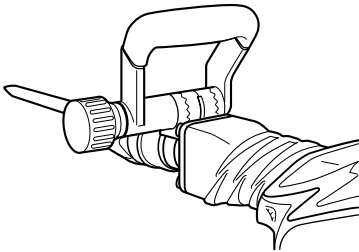


Fig. 6

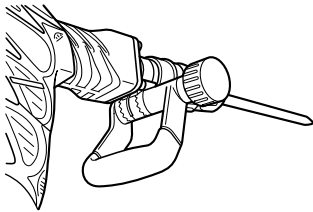


Fig. 7

8. Select the number of strikes (Fig. 8)

**CAUTION:** Do not make any adjustment of the dial during operation. Holding the main body with one hand can swing you around, resulting in an injury.

This machine has an electronic controlled circuit built-in, enabling stepless regulation of the number of strikes. Make the most of this machine by adjusting the dial according to the working contents; chiseling, demolishing, or the quality of the material to be chiseling or demolishing.

The scale "1" of the dial is for the minimum speed with 930 strikes per minute, and the scale "6" is for the maximum speed with 1650 strikes per minute.

Standard number of strikes

Dial	Number of strikes/min.
6	1650
5	1590
4	1460
3	1320
2	1110
1	930

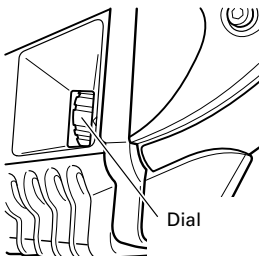


Fig. 8

## HOW TO USE THE DEMOLITION HAMMER (Fig. 9)

- After placing the tip of the tool on concrete surface, switch ON.  
The switch can be turned ON if the trigger is pulled and OFF when it is released.  
If the stopper is pressed while the trigger for the switch is pulled, even if your finger is released from the trigger, the switch remains ON - convenient for continuous operation.  
To turn the switch OFF, pull the trigger again, and then the stopper comes off.
- By utilizing the empty weight of the machine and by firmly holding the demolition hammer with both hands, one can effectively control the subsequent recoil motion.  
Proceed at a moderate work-rate, the use of too much force will impair efficiency.

**CAUTION**

After long time of use, the cylinder case becomes hot. Therefore, be careful not to burn your hands.

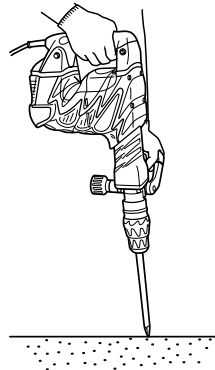


Fig. 9

## GREASE REPLACEMENT

This machine is of fully oil sealed construction to protect against dust incursion and to prevent lubricant leakage. This machine can be used without grease replenishment for an extended period of time. However, perform the grease replacement to extend the service life. Replace the grease as described below.

**1. Grease Replacement Period**

After purchase, replace grease after every 6 months of usage.

Ask for grease replacement at the nearest Hitachi Authorized Service Center.

In the case that you are forced to change the grease by yourself, please follow the following points.

**2. How to replace grease**

**CAUTION**

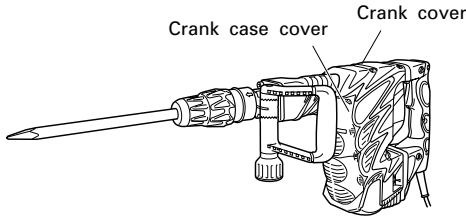
Before replacing the grease, turn the power off and pull out the plug from the receptacle.

- (1) Remove the crank case cover and the crank cover and wipe off the old grease inside (Fig. 10).

- (2) Supply 80 g (the standard volume to cover the connecting rod) of Hitachi Electric Hammer Grease A in the crank case.
- (3) After replacing the grease, install the crank case cover and the crank cover securely. At this time, do not damage or lose the oil seal.

**NOTE**

The Hitachi Electric Hammer Grease A is of the low viscosity type. When the grease is consumed, purchase from the Hitachi Authorized Service Center.



**Fig. 10**

In the operation and maintenance of power tools, the safety regulations and standards prescribed in each country must be observed.

**MODIFICATION**

Hitachi Power Tools are constantly being improved and modified to incorporate the latest technological advancements.

Accordingly, some parts (i.e. code numbers and/or design) may be changed without prior notice.

**NOTE**

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

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**MAINTENANCE AND INSPECTION**

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**CAUTION**

Be sure to switch power OFF and disconnect the plug from the receptacle to avoid serious trouble.

**1. Inspecting the tool**

Since use of a dull tool will degrade efficiency and cause possible motor malfunction, sharpen or replace the tool as soon as 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. Maintenance of the motor**

The motor unit winding is the very "heart" of the power tool. Exercise due care to ensure the winding does not become damaged and/or wet with oil or water.

**4. Inspecting the carbon brushes**

For your continued safety and electrical shock protection, carbon brush inspection and replacement on this tool should ONLY be performed by a Hitachi Authorized Service Center.

**5. Replacing supply cord**

If the supply cord of Tool is damaged, the Tool must be returned to Hitachi Authorized Service Center for the cord to be replaced.

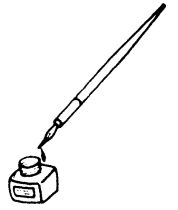
**6. Service parts list**

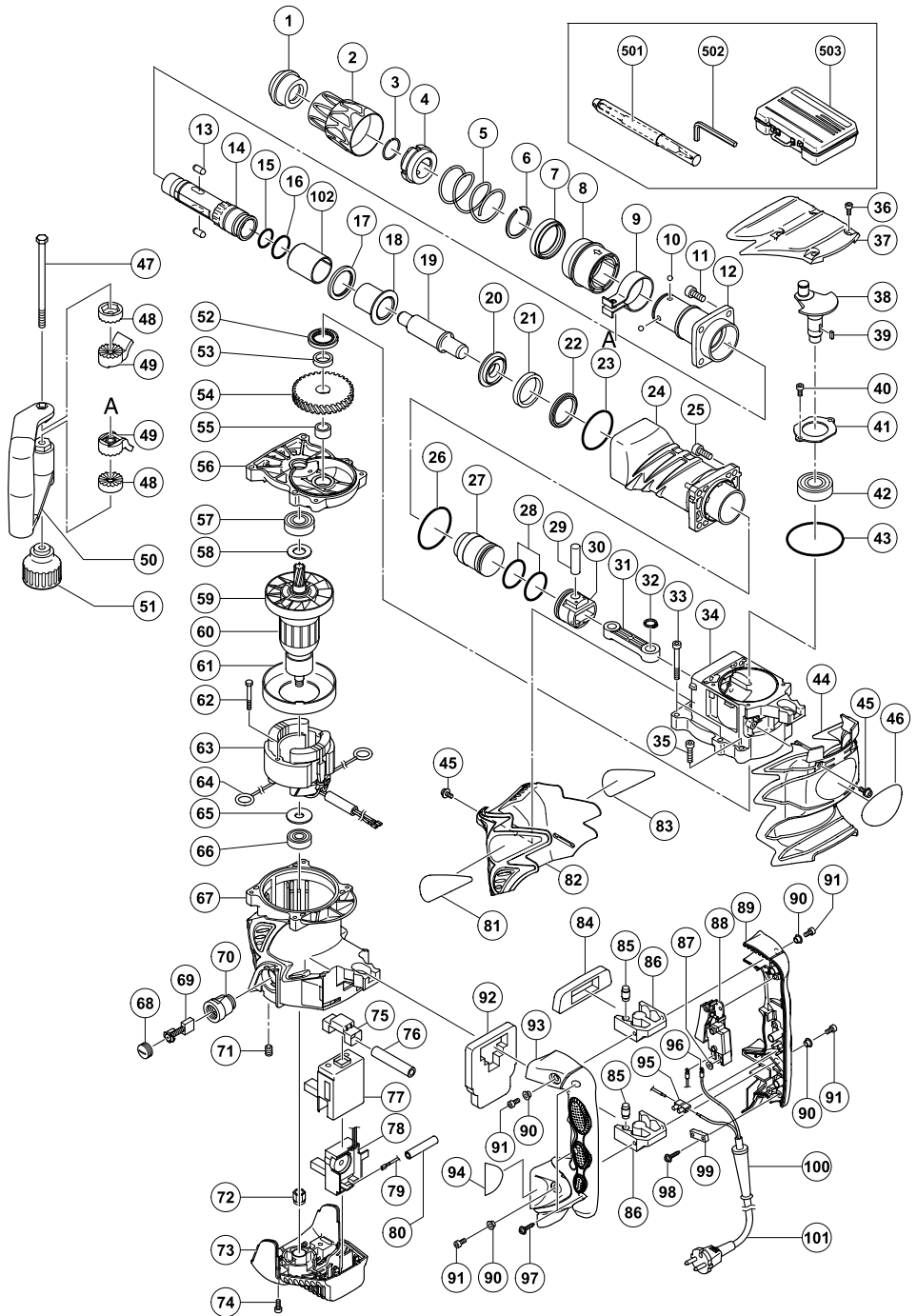
- A: Item No.
- B: Code No.
- C: No. Used
- D: Remarks

**CAUTION**

Repair, modification and inspection of Hitachi Power Tools must be carried out by a Hitachi Authorized Service Center.

This Parts List will be helpful if presented with the tool to the Hitachi Authorized Service Center when requesting repair or other maintenance.

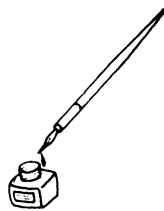


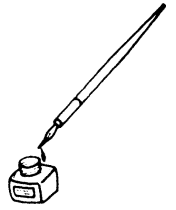




A	B	C	D
1	315-529	1	
2	324-025	1	
3	320-803	1	
4	320-804	1	
5	324-027	1	
6	317-088	1	
7	320-810	1	
8	324-028	1	
9	320-635	1	
10	959-150	4	D6.35
11	985-479	4	M8 × 25
12	324-029	1	
13	313-421	2	D8 × 20
14	324-026	1	
15	872-470	1	S-26
16	872-767	1	S-32
17	317-094	1	
18	324-030	1	
19	324-031	1	
20	317-091	1	
21	324-032	1	
22	317-095	1	
23	317-119	1	S-56
24	324-034	1	
25	995-400	4	M8 × 30
26	956-996	1	1AS-60
27	324-033	1	
28	985-454	2	FPM810
29	301-509	1	
30	317-084	1	
31	317-082	1	
32	939-543	1	
33	301-567	4	M6 × 55
34	324-035	1	
35	324-056	2	M6 × 35
36	990-079	4	M5 × 16
37	324-037	1	
38	317-078	1	
39	940-533	1	3 × 3 × 10
40	984-509	2	M5 × 14
41	985-443	1	
42	620-4DD	1	6204DDCMPS2L
43	301-506	1	S-75
44	324-038	1	
45	998-471	3	M5 × 12
46	_____	1	
47	317-107	1	M8
48	317-106	2	
49	317-105	2	
50	317-103	1	"9, 47-51"
51	317-108	1	
52	995-403	1	
53	995-402	1	
54	317-080	1	
55	985-442	1	BK1512
56	324-048	1	"55"
57	620-3DD	1	6203DDCMPS2L
58	992-841	1	
59	996-370	1	
60-1	360-691C	1	110V "59"
60-2	360-691E	1	230V "59"
60-3	360-691F	1	240V "59"
61	305-610	1	
62	953-121	2	D5 × 50

A	B	C	D
63-1	340-610C	1	110V "64"
63-2	340-610E	1	230V "64"
63-3	340-610F	1	240V "64"
64	945-932	2	
65	944-954	1	
66	620-1DD	1	6201DDCMPS2L
67	324-040	1	"70, 71"
68	940-540	2	
69	999-074	2	
70	956-984	2	
71	938-477	2	M5 × 8
72	317-087	1	
73	324-041	1	
74	317-245	2	M5 × 22
75	324-045	1	
76	322-530	1	
77	317-100	1	
78-1	324-050	1	110V
78-2	324-052	1	230V-240V
79	317-113	1	
80	_____	1	
81	_____	1	
82	324-036	1	
83	_____	1	
84	314-046	1	
85	310-124	8	
86	310-123	2	
87	949-423	1	M4
88	306-143	1	
89	324-042	1	
90	991-711	4	
91	991-690	4	M5 × 12
92	324-047	1	
93	324-043	1	
94	_____	1	
95	938-307	1	
96	980-063	1	
97	307-028	3	D4 × 25
98	984-750	2	D4 × 16
99	960-266	1	
100	953-327	1	D8.8
101	_____	1	
102	324-130	1	
501	313-471	1	280L
502	872-422	1	6MM
503	324-049	1	





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505  
Code No. C99137011 N  
Printed in Japan