

MODEL

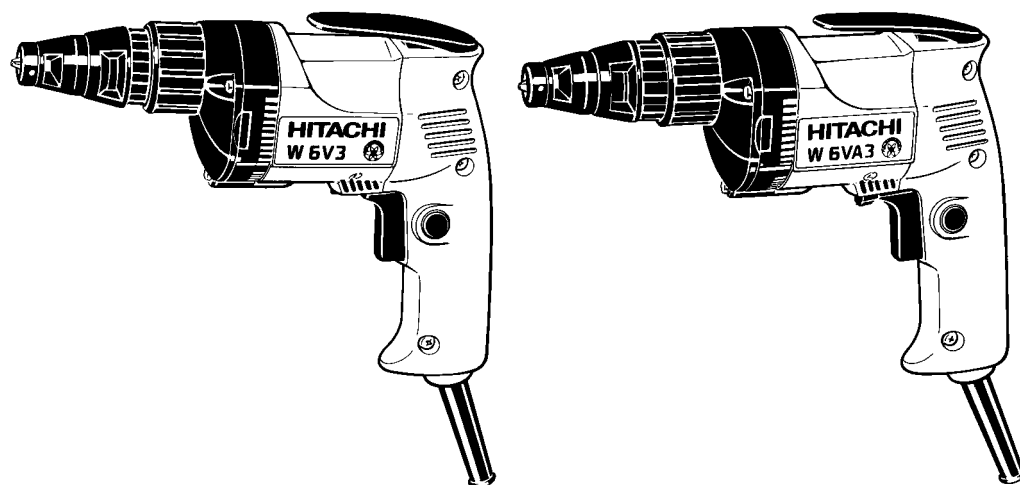
**W 6V3**  
**W 6VA3**

# HITACHI

## POWER TOOLS

**SCREW DRIVER**  
**W 6V3, W6VA3**

**TECHNICAL DATA**  
**AND**  
**SERVICE MANUAL**



LIST Nos. W 6V3: 0784  
W 6VA3: 0785

Jan. 2000

REMARK:

Throughout this TECHNICAL DATA AND SERVICE MANUAL, a symbol(s) is(are) used in the place of company name(s) and model name(s) of our competitor(s). The symbol(s) utilized here is(are) as follows:

Model: W 6V3

Symbols Utilized	Competitors	
	Company Name	Model Name
C	MAKITA	6821
B	BOSCH	GSR6-40TE
P	DeWALT	DW251

Model: W 6VA3

Symbols Utilized	Competitors	
	Company Name	Model Name
C	MAKITA	6800DBV
B	BOSCH	GSR6-25TE
P	DeWALT	DW257

**Notice for use**

Specifications and parts are subject to change for improvement.  
Refer to Hitachi Power Tool Technical News for further information.

**CONTENTS**

<b>[ Business Section ]</b>	<b>Page</b>
<b>1. PRODUCT NAME</b> .....	<b>1</b>
<b>2. MARKETING OBJECTIVE</b> .....	<b>1</b>
<b>3. APPLICATIONS</b> .....	<b>1</b>
<b>4. SELLING POINTS</b> .....	<b>1</b>
<b>5. SPECIFICATIONS</b> .....	<b>2</b>
5-1. Specifications .....	2
5-2. Optional Accessories .....	3
<b>6. COMPARISONS WITH SIMILAR PRODUCTS</b> .....	<b>4</b>
6-1. W 6V3 .....	4
6-2. W 6VA3 .....	4
6-3. Screw tightening time .....	5
<b>7. PRECAUTIONS IN SALES PROMOTION</b> .....	<b>7</b>
7-1. Handling Instructions .....	7
7-2. Caution Plates .....	7
7-3. Screw Driving-Depth Adjustment .....	7
7-4. Self-Drilling Screws .....	8
7-5. Drywall Screws .....	8
7-6. Variable-Speed Switch .....	9
<b>8. PRECAUTIONS IN DISASSEMBLY AND REASSEMBLY</b> .....	<b>9</b>
8-1. Disassembly .....	9
8-2. Reassembly .....	10
8-3. Wiring Diagrams .....	11
8-4. Internal Wire Arrangement and Wiring Work .....	12
8-5. Insulation Tests .....	14
8-6. No-load Current Values .....	14
<b>9. STANDARD REPAIR TIME (UNIT) SCHEDULES</b> .....	<b>15</b>
<b>[ Appendix ]</b>	
Assembly Diagram for W 6V3 .....	16
Assembly Diagram for W 6VA3 .....	20

## 1. PRODUCT NAME

Hitachi Screw Driver, Model W 6V3  
Model W 6VA3

## 2. MARKETING OBJECTIVE

The Models W 6V3 and W 6VA3 screw drivers are upgraded versions of the current Models W 6V2 and V 6VA2, equipped with more powerful motors and compact bodies, and a one-touch detachable locator. Our market share is expected to grow with the release of these new models which broaden our lineup of screw drivers.

## 3. APPLICATIONS

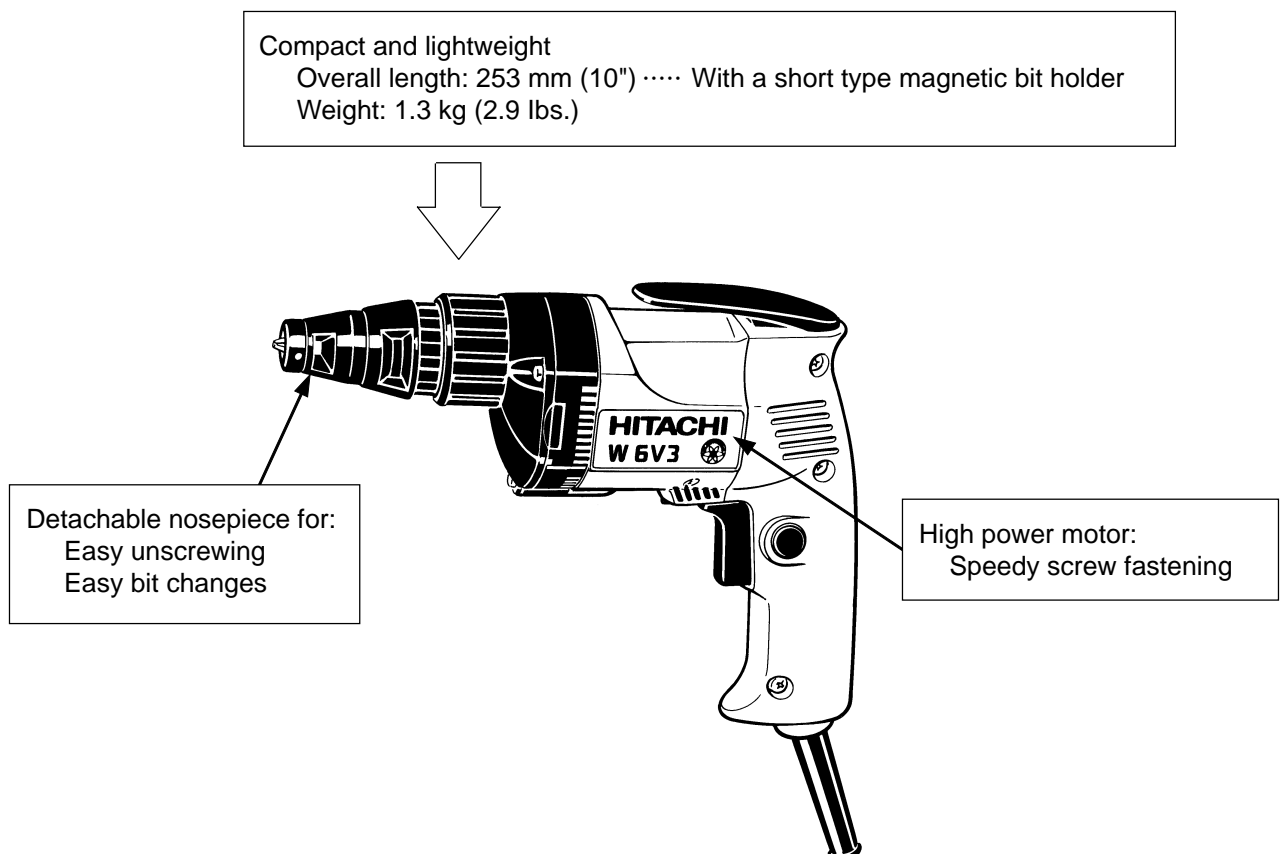
Drywall screws: Fastening metal studs and drywall

- Interior construction
- Installation of ceilings, paneling or partitions in offices, shops, supermarkets, apartment houses, schools, factories, etc.

Hex. and Teks screws: Fastening metal to metal, or metal to wood

- Exterior construction
- Installation of siding on buildings
- Installation of galvanized iron sheet or corrugated sheet roofing
- Plate assembly
- Assembly and mounting of advertising billboards
- Assembly of metal frames for vinyl greenhouses
- Assembly and installation of automobile stamped sections
- Various other interior/exterior construction and plate assembly jobs

## 4. SELLING POINTS



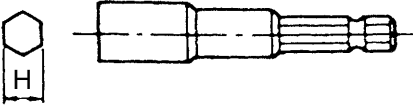
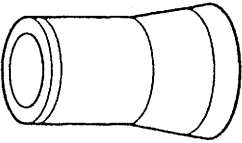
## 5. SPECIFICATIONS

### 5-1. Specifications



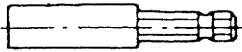




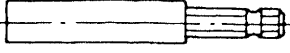



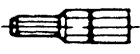
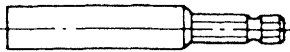
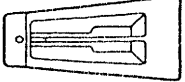
Model		W 6V3	W 6VA3
Capacity	Drywall screw	6 mm (1/4")	
	Self-drilling screw	6 mm (1/4")	
Bit mounting size		6.35 mm (1/4")	
Power source		Single phase, AC 50 Hz or 60 Hz	
Type of motor		Single phase, AC commutator motor	
Full-load current	U.S.A., Canada	6.4 A (115 V)	
	Other areas	5.9 A (110 V)	2.9 A (220 V) 2.8 A (230 V) 2.7 A (240 V)
Power input	U.S.A., Canada	680 W	
	Other areas	600 W	
No-load speed		0 – 4,000 /min	0 – 2,600 /min
Full-load speed		0 – 3,100 /min	0 – 2,000 /min
Enclosure		Housing, handle cover, inner cover and gear cover ..... Polyamide resin	
Switch		Variable switch with reversing switch	
Handle		Pistol grip handle	
Weight		Net ..... 1.3 kg (2.9 lbs.) (without cord)	
		Gross ..... 1.8 kg (4.0 lbs.)	
Packaging		Corrugated cardboard box	
Cord	Type	Two core cabtire cable	
	Overall length	2.5 m (8.2 ft.)	
Standard accessories		Magnetic bit holder ..... 1	
		No. 2 Phillips driver bit ..... 1	
		Sub-stopper ..... 1	

5-2. Optional Accessories

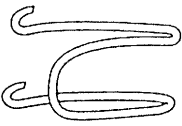
(1) For hex-head screws

Hex-socket		Sub-stopper (B)
		
Magnetic type	Non magnetic type	
H = 6.35 mm	H = 6.35 mm	H 1/4
H = 7.94 mm	H = 7.94 mm	H 5/16
H = 9.53 mm	H = 9.53 mm	H 3/8
H = 10 mm	H = 10 mm	

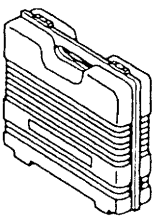
(2) For other screws

Screw head	Bit type		Bit holder	Sub-stopper
		No. 1 No. 2 No. 3	 Magnetic bit holder (Short type)	 Sub-stopper (A)
		No. 1 No. 2		
		No. 1 No. 2 No. 3	 Magnetic bit holder	 Sub-stopper (E)
		No. 1 No. 2		
		B size 4 mm 5 mm	 Non-magnetic bit holder	 Sub-stopper (C)

(3) Hook



(4) Plastic case



Optional accessories are subject to change without notice.

## 6. COMPARISONS WITH SIMILAR PRODUCTS

### 6-1. W 6V3

Maker			HITACHI		C	B	P
Model			W 6V3	W 6V2			
Capacity	Dry-wall screw	mm	6 (1/4")	5 (3/16")	5 (3/16")	6 (1/4")	5 (3/16")
	Self-drilling screw	mm	6 (1/4")	6 (1/4")	6 (1/4")	–	–
Power input	U. S. A.	W	680	600	570	500	–
	Other areas		600	540	570	500	–
No-load rotation		/min	0 – 4000	0 – 4000	0 – 4000	0 – 4000	0 – 4000
No-load noise level		dB (A)	79	79	79	80	83
Max. output		W	690	680	620	375	–
Overall length		mm	253 (9-15/16")	293 (11-17/32")	273 (10-3/4")	312 (12-9/32")	315 (12-3/8")
Cord length		m	2.5 (8.2 ft.)	2.5 (8.2 ft.)	2.5 (8.2 ft.)	2.5 (8.2 ft.)	2.4 (7.9 ft.)
Weight		kg	1.3 (2.9 lbs.)	1.3 (2.9 lbs.)	1.3 (2.9 lbs.)	1.5 (3.3 lbs.)	1.3 (2.9 lbs.)


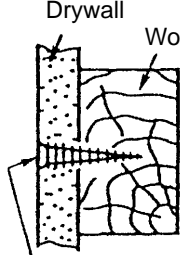



### 6-2. W 6VA3

Maker			HITACHI		C	B	P
Model			W 6VA3	W 6VA2			
Capacity	Dry-wall screw	mm	6 (1/4")	5 (3/16")	6 (1/4")	6 (1/4")	6 (1/4")
	Self-drilling screw	mm	6 (1/4")	6 (1/4")	6 (1/4")	–	–
Power input	U. S. A.	W	680	600	–	–	–
	Other areas		600	540	350	500	–
No-load rotation		/min	0 – 2600	0 – 2600	0 – 2500	0 – 2500	0 – 2500
No-load noise level		dB (A)	79	79	86	80	83
Max. output		W	690	680	260	375	–
Overall length		mm	253 (9-15/16")	293 (11-17/32")	285 (11-1/4")	312 (12-9/32")	328 (12-15/16")
Cord length		m	2.5 (8.2 ft.)	2.5 (8.2 ft.)	2.5 (8.2 ft.)	2.5 (8.2 ft.)	2.4 (7.9 ft.)
Weight		kg	1.3 (2.9 lbs.)	1.3 (2.9 lbs.)	1.5 (3.3 lbs.)	1.5 (3.3 lbs.)	1.6 (3.5 lbs.)


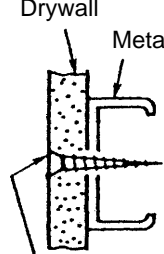



### 6-3. Screw tightening time

Tables 1 and 2 show the relationship between thrust and tightening time based on factory tests. The tightening time may vary a little as screws are not necessarily uniform. The time information is for reference.


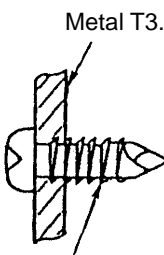



<W 6V3>

Maker & Model	Tightening time (sec.)				Type of application
	0.1	0.2	0.3		
Hitachi W 6V3					 <p>Drywall</p> <p>Wood</p> <p>(5/32" x 1-1/8") 4 mm dia. x 29 mm Drywall screw</p>
Hitachi W 6V2					
C					
P					

[Thrust: 20 kg]  
(44 lbs.)

Maker & Model	Tightening time (sec.)				Type of application
	0.2	0.3	0.4		
Hitachi W 6V3					 <p>Drywall</p> <p>(1/32") Metal T0.8</p> <p>(5/32" x 1-1/8") 4 mm dia. x 29 mm Drywall screw</p>
Hitachi W 6V2					
C					
P					

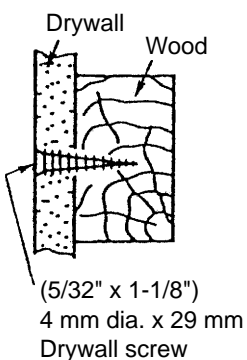
[Thrust: 20 kg]  
(44 lbs.)

Maker & Model	Tightening time (sec.)				Type of application
	1.0	1.2	1.4		
Hitachi W 6V3					 <p>Metal T3.2 mm (1/8")</p> <p>Self drilling screw 6 mm dia. x 25 mm (15/64" x 1")</p>
Hitachi W 6V2					
C					
P					

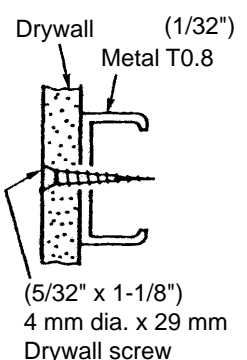
[Thrust: 30 kg]  
(66 lbs.)



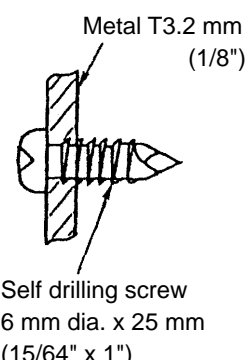
<W 6VA3>

Maker & Model	Tightening time (sec.)				Type of application
	0.2	0.3	0.4		
Hitachi W 6VA3					 <p>(5/32" x 1-1/8") 4 mm dia. x 29 mm Drywall screw</p>
Hitachi W 6VA2					
C					
P					

[Thrust: 20 kg]  
(44 lbs.)

Maker & Model	Tightening time (sec.)			Type of application
	0.3	0.4	0.5	
Hitachi W 6VA3				 <p>(5/32" x 1-1/8") 4 mm dia. x 29 mm Drywall screw</p>
Hitachi W 6VA2				
C				
P				

[Thrust: 20 kg]  
(44 lbs.)

Maker & Model	Tightening time (sec.)			Type of application
	1.0	2.0	3.0	
Hitachi W 6VA3				 <p>Self drilling screw 6 mm dia. x 25 mm (15/64" x 1")</p>
Hitachi W 6VA2				
C				
P				

[Thrust: 30 kg]  
(66 lbs.)

## 7. PRECAUTIONS IN SALES PROMOTION

In the interest of promoting the safest and most efficient use of the Models W 6V3 and W 6VA3 electric screwdrivers by all of our customers, it is very important that at the time of sales 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 power 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 electric screwdriver are listed in the Handling Instructions to enhance the safe and 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 Plates

The following basic safety precautions are listed on the Name Plate attached to the main body of each tool. However, these precautions are not listed for European countries.

- For Asia and Oceania

#### **CAUTION**

- **Read thoroughly HANDLING INSTRUCTIONS before use.**

- For the U.S.A. and Canada

#### **WARNING**

- **To reduce the risk of injury, user must read and understand instruction manual**

#### **AVERTISSEMENT**

- **Afin de reduire le risque de blessures, l'utilisateur doit lire et bien comprendre le mode d'emploi.**

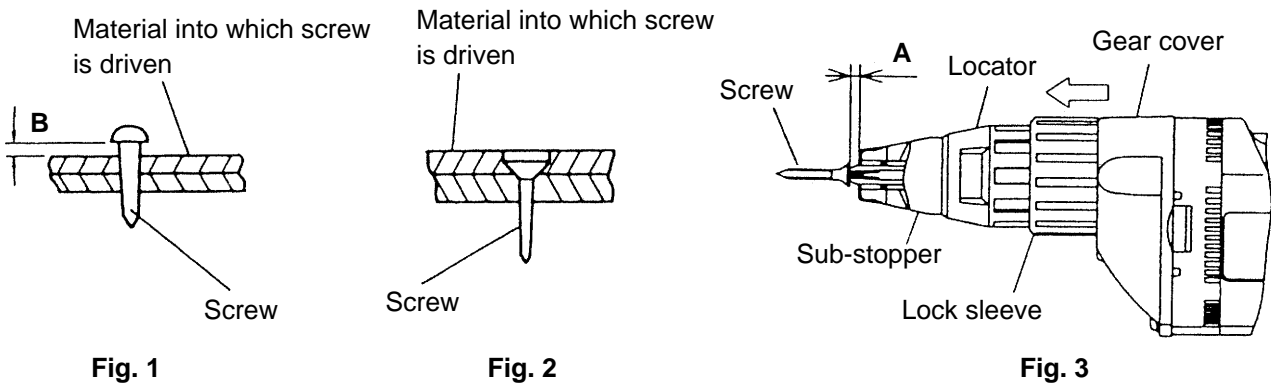
### 7-3. Screw Driving-Depth Adjustment

Information and suggestions for screw driving-depth selection for applicable screws are described in the Handling Instructions. The salesperson must be thoroughly familiar with screw driving-depth adjustment procedures to be able to instruct the customer/user in performing adjustment so that the screw neither protrudes above nor sinks excessively below the surface of the workpiece into which the screw is driven.

Specific adjustment procedures are as follows.

(1) Head of screw protrudes above workpiece surface (Fig. 1).

If dimension A in Fig. 3 is excessively small, the head of the driven screw will protrude above the surface of the workpiece material as shown in Fig. 1. To adjust dimension A, pull the lock sleeve in the direction indicated by the arrow in Fig. 3 to disengage the lock sleeve from the gear cover spline, and rotate the lock sleeve clockwise as viewed from the screw mounting end (see Note below). Repeat adjustment as necessary until the head of the driven screw is properly aligned with the surface of the workpiece.



(2) Head of screw sinks below workpiece (Fig. 2).

If dimension A in Fig. 3 is excessively large, the head of the driven screw will sink below the surface of the workpiece as shown in Fig. 2. To perform adjustment, follow the procedures described in item (1) above, but rotate the lock sleeve counter-clockwise.

Should Hex. and Teks screws be driven when dimension A is excessively large, both the screws and bits may be easily damaged. Instruct customers/users to perform adjustment correctly without fail.

(NOTE) By turning the lock sleeve clockwise or counter-clockwise, dimension A in Fig. 3 can be adjusted within a maximum dimension of 1.5 mm (0.059"). One complete rotation of the lock sleeve is divided into ten settings, each setting permitting an adjustment of 0.15 mm (0.006"). Accordingly, if dimension B in Fig. 1 is 0.3 mm (0.012"), rotate the lock sleeve by two settings.

#### 7-4. Self-Drilling Screws

Self-drilling screws are most suitable for joining wooden and metal materials, mounting metallic components onto iron sheets, or installing roofing materials. Self-drilling and self-tapping, they are commonly employed in the construction industry because:

- Separate drilling and tapping processes are not required when securing wooden materials to metal materials.
- Consequently, job costs and processes can be drastically reduced.

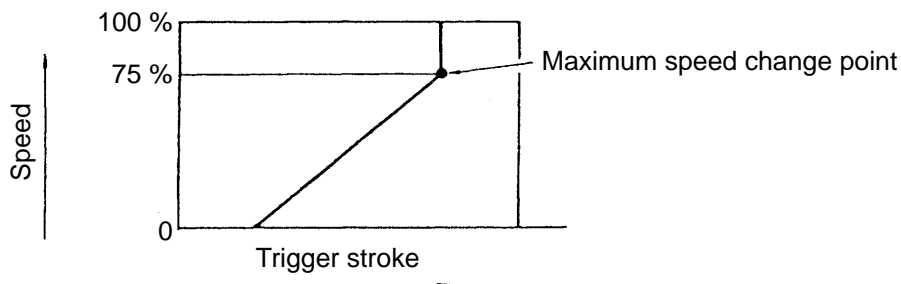
#### 7-5. Drywall Screws

Drywall screws are most suitable for interior decorating and construction utilizing such materials as gypsum board and plastic board. Their main features are:

- Like Hex. and Teks screws, drywall screws are self-drilling, and can reduce work time.
- Wall panels can be mounted cleanly without cracks or chips.
- Drywall screws display far stronger holding power than conventional screws when applied to materials composed of powder of particles, such as gypsum board.

## 7-6. Variable-Speed Switch

This switch is equipped with a variable speed control circuit. Through the control circuit, the speed can be controlled up to 75 % of maximum speed according to the degree at which the switch is depressed. A disadvantage of this system is that if the bit becomes locked resulting in stoppage of the motor, the speed control circuit may be burnt out. In such a case, the switch should be released immediately or turned OFF. To avoid damage to the switch circuit, the customer should be advised to increase driving speed gradually until the screw is driven approximately halfway into the workpiece, then depress the trigger to obtain optimum speed.



**Fig. 4**

Switch characteristics (Approximately shown converted into the linear line)

## 8. PRECAUTIONS IN DISASSEMBLY AND REASSEMBLY

The **[BOLD]** numbers in the descriptions below correspond to the item numbers in the Parts List and the exploded assembly diagram.

### 8-1. Disassembly

#### A. Disassembly of the parts within the handle

##### (1) Removal of the Handle Cover

Loosen the three Tapping Screws D4 x 20 **[26]**, and remove the Housing. Handle Cover Set **[24]**.

##### (2) Removal of the Carbon Brushes

With a small flat-blade screwdriver, lift up on the Brush Holder **[31]**, and pull it out slightly. Next, pull out the terminal portion which connects the two Carbon Brushes **[30]** and the lead wires from the Speed Control Switch **[27]**. When pulling the terminal, it is best to push the Carbon Brushes fully into the Brush Holder.

##### (3) Removal of the Cord

Loosen the two Tapping Screws D4 x 16 **[39]** which retain the Cord Clip **[40]**, and remove the Cord **[43]** together with the Cord Armor **[41]**.

#### B. Removal of the armature and stator

##### (1) Removal of the Armature

Remove the three Tapping Screws D4 x 40 **[8]** from the Gear Cover Ass'y **[9]**, and remove the Inner Cover Ass'y **[18]** from the Housing. Handle Cover Set **[24]**. The Armature **[20]** can then be taken out.

##### (2) Removal of the Stator

First, remove the Fan Guide (B) **[21]** from the inside of the Housing.

Then, loosen the two Tapping Screws D4 x 50 **[22]**, and lightly tap the end surface of the Housing Handle Cover Set **[24]** with a wooden hammer to loosen and remove the Stator **[23]**.

### C. Removal of the socket (A) ass'y and gear ass'y

- (1) Remove the Gear Cover Ass'y [9] and the Inner Cover Ass'y [18], then the Socket (A) Ass'y [11], Gear [15] and Clutch Disc [13] can be removed. If the Gear [15] is hard to remove, lightly tap the end surface of the Inner Cover Ass'y [18] with a wood hammer. Be careful not to lose the Spring [14] on the outer circumference of the Gear [15] and the Washer (A) [17]. As shown in Fig. 5, insert two flat-blade screwdrivers between the Inner Cover Ass'y [18] and Gear [15] at each side and remove the Gear [15] and Ball Bearing [16] from the Inner Cover Ass'y as a single unit.

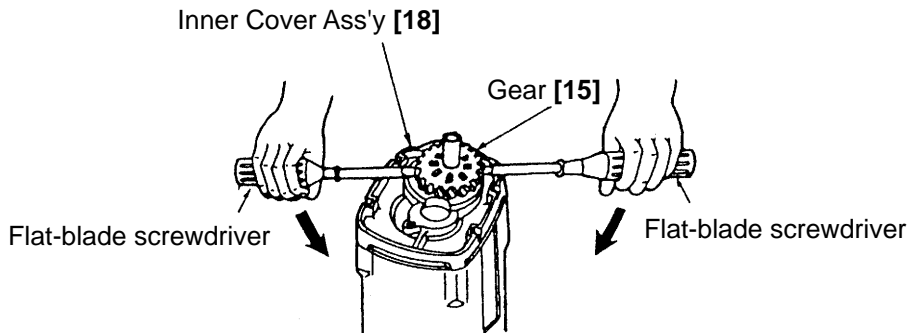


Fig. 5

### 8-2. Reassembly

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

#### (1) Lubrication

Grease: Hitachi Motor Grease (Code No. 930035)

Application:

- (a) Fill a moderate amount of grease in the Gear Cover Ass'y [9]. (If the Gear Cover Ass'y is new, fill it with 7 g of grease.)
- (b) Outer circumference and clutch of the Socket (A) Ass'y [11]
- (c) Teeth and clutch of the Gear [15]
- (d) Outer circumference of the Gear [15]
- (e) Clutch and inner circumference of the Clutch Disc [13]
- (f) Pinion of the Armature [20]

#### (2) Tightening torque

- Handle cover retaining screws ..... 15 – 25 kg•cm (13.0 – 21.7 in-lbs.)
- Cord clip retaining screws ..... 15 – 25 kg•cm (13.0 – 21.7 in-lbs.)
- Gear cover retaining screws ..... 15 – 25 kg•cm (13.0 – 21.7 in-lbs.)
- Stator retaining screws ..... 15 – 25 kg•cm (13.0 – 21.7 in-lbs.)
- Speed control switch retaining screws ..... 4 – 8 kg•cm (3.5 – 6.9 in-lbs.)

### 8-3. Wiring Diagrams

#### (1) Products with noise suppressor

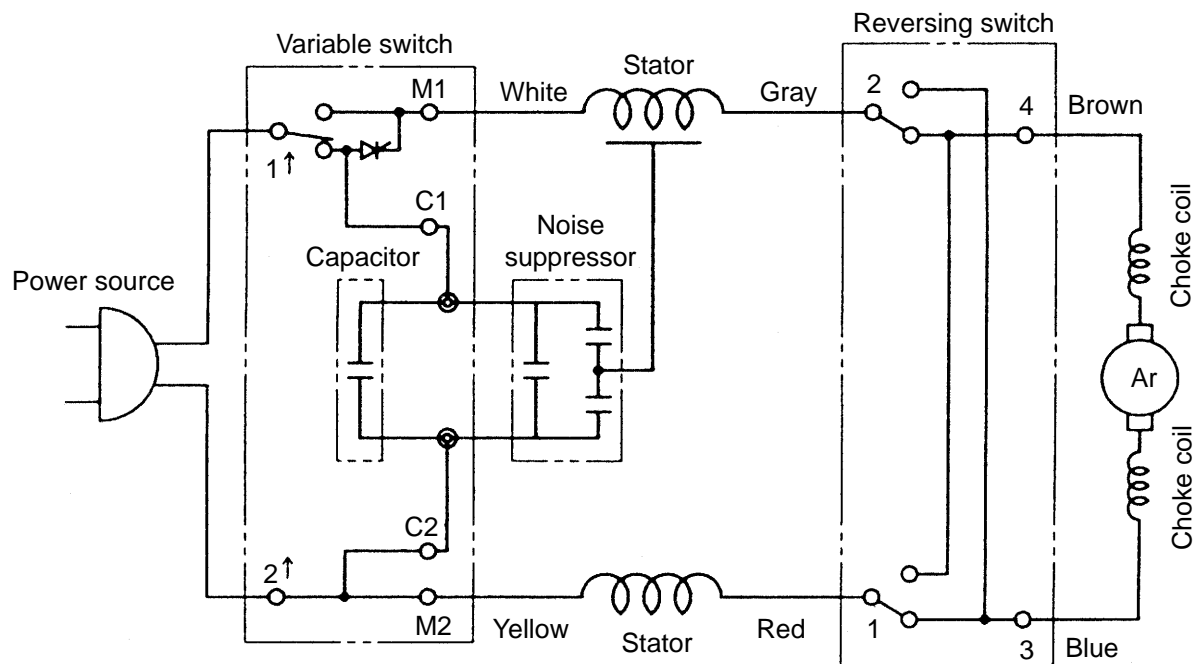


Fig. 6

#### (2) Products without noise suppressor

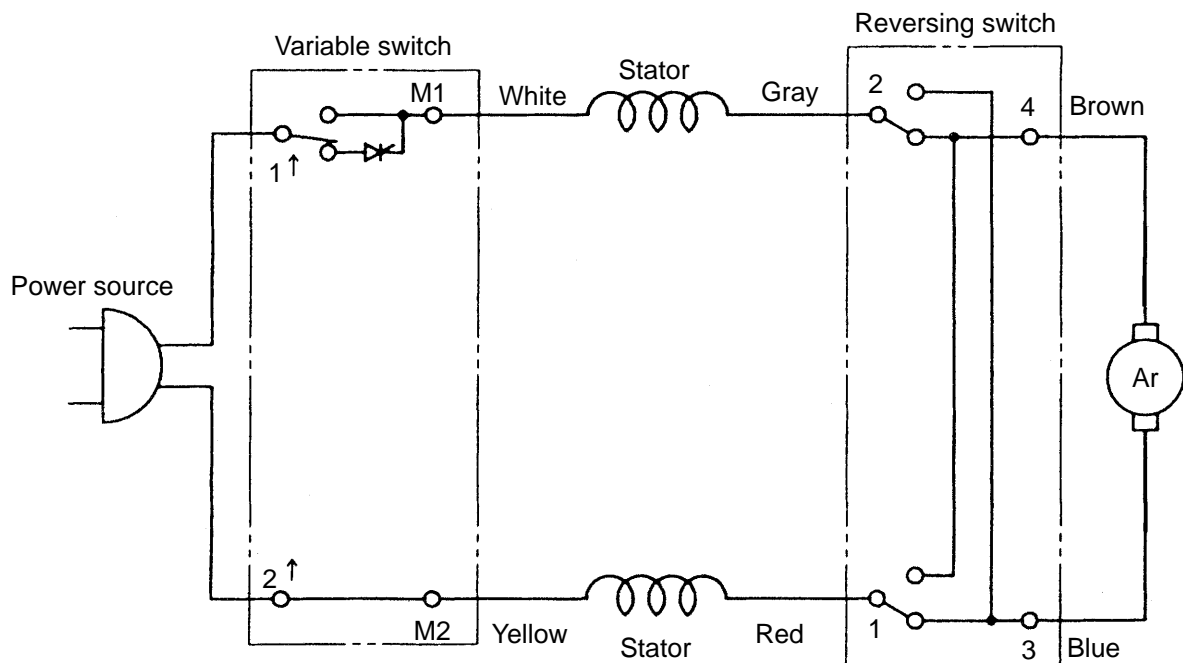


Fig. 7

## 8-4. Internal Wire Arrangement and Wiring Work

### A. Internal wire arrangement

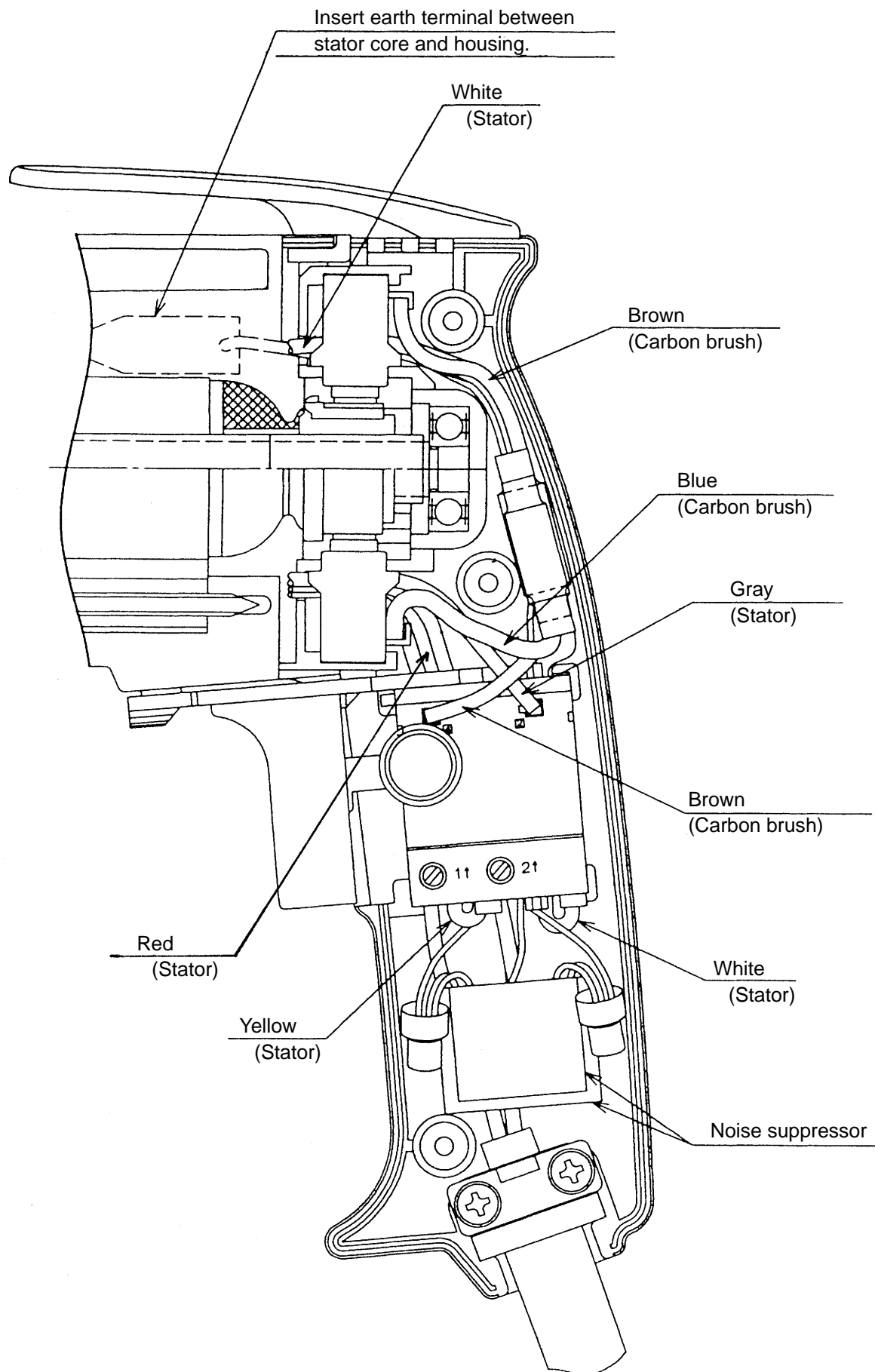


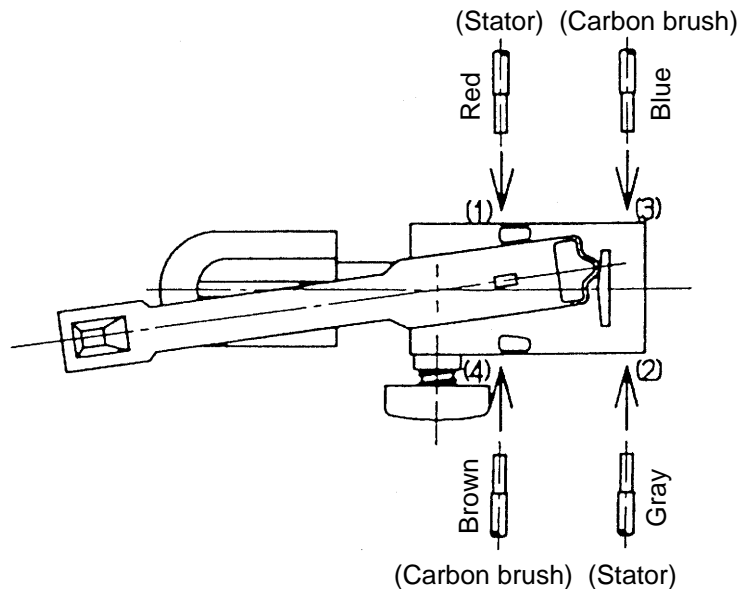
Fig. 8 Schematic diagram

## B. Additional wiring work

General internal wiring can be accomplished by referring to paragraph 8-3 and 8-4-A. The followings are special instructions for switch connection.

### (1) Wiring of reversing switch

Insert the lead wire (red) coming from the stator into the terminal (1) of the reversing switch, and the lead wire (gray) into the terminal (2) as shown in Fig. 9. Insert the lead wire (blue) coming from the carbon brush into the terminal (3) and the lead wire (brown) into the terminal (4). After insertion, pull each lead wire slightly to check that the lead wires do not come off. To disconnect the lead wires, insert a small flat-blade screwdriver into the slots near the terminals and pull out the lead wires.



**Fig. 9 Wiring of reversing switch**



(2) Wiring of variable speed control switch

Insert each cord into the terminal 1 ↑ and terminal 2 ↑ of the speed control switch as shown in Fig. 10, and tighten the screw [tightening torque:  $0.6 \pm 0.2 \text{ N}\cdot\text{m}$ , ( $6 \pm 2 \text{ kgf}\cdot\text{cm}$ ,  $5.2 \pm 1.7 \text{ in}\cdot\text{lbs.}$ )]. Insert the lead wire (white) coming from the stator into the terminal M1 and the lead wire (yellow) into the terminal M2. Insert each lead wire (white) coming from the noise suppressor into the terminal C1 and C2. After insertion, pull each lead wire slightly to check the lead wires do not come off. To disconnect the lead wires, insert a small flat-blade screwdriver into the slots near the terminals and pull out the lead wires.

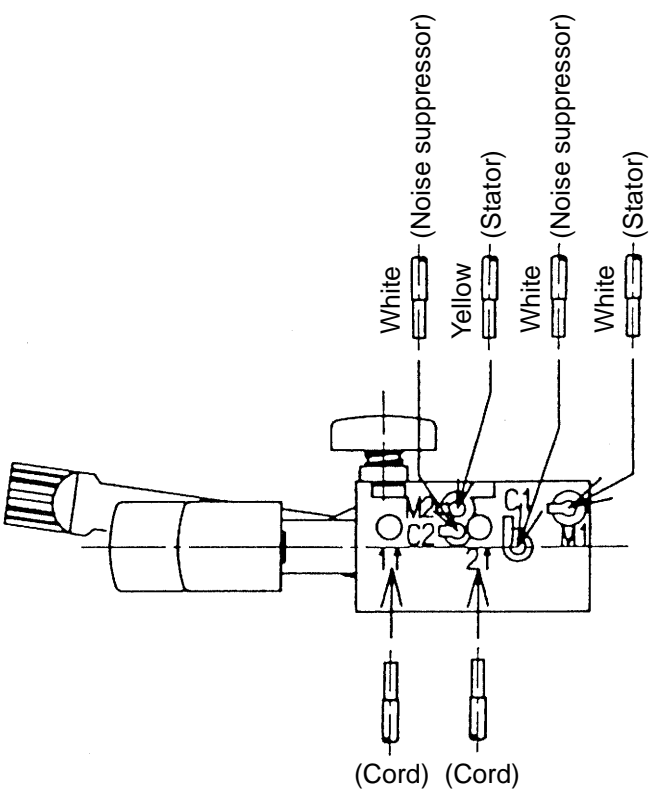


Fig. 10 Wiring of speed control switch

8-5. Insulation Tests

On completion of reassembly after repair, measure the insulation resistance and conduct the dielectric strength test.

Insulation resistance: 7 MΩ or more with DC 500 V Megohm Tester

Dielectric strength: AC 4,000 V/1 minute, with no abnormalities ..... 220 V – 240 V (and 110 V for U.K. products)  
AC 2,500 V/1 minute, with no abnormalities ..... 110 V – 127 V (except for U.K. products)

8-6. No-load Current Values

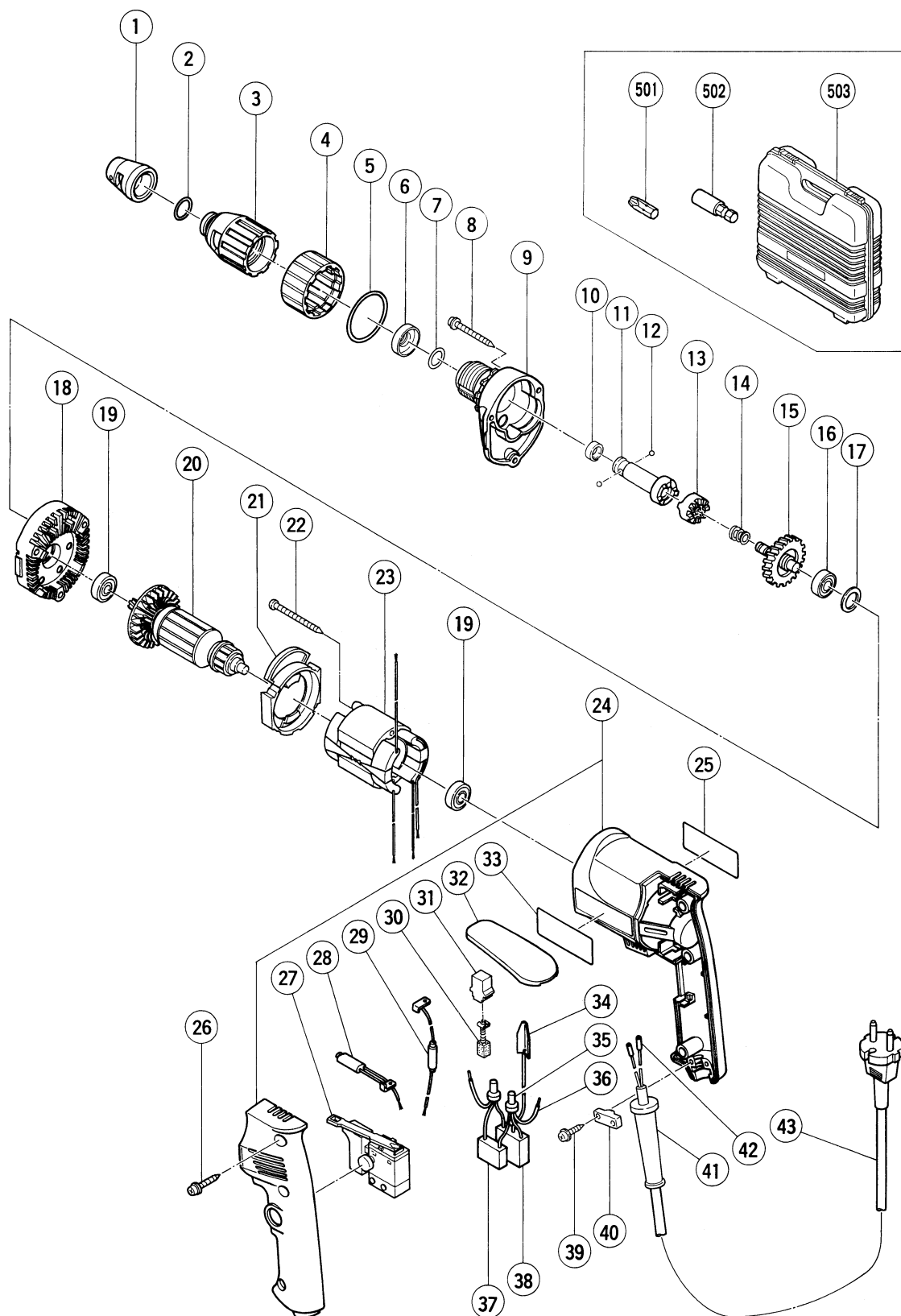
After no-load operation for 30 minutes, the no-load current value should be as follows.

Voltage (V)	110	115	120	220	230	240
Current (A) Max.	2.5	2.5	2.5	1.2	1.2	1.1

## 9. STANDARD REPAIR TIME (UNIT) SCHEDULES

MODEL	Variable		10	20	30	40	50	60
	Fixed							
<div>W 6V3</div> <div>W 6VA3</div>	<div>General Assembly</div>	Work Flow						
		Speed Control Switch						
		Cord Armor			Housing.Handle			
		Cord			Cover Ass'y			
		Carbon Brush x 2			Stator			
				Armature				
				Ball Bearing (608VV) x 2				
				Inner Cover Ass'y				
				Spring				
		Gear						
		Clutch Disc						
		Ball Bearing (608VV)						
		Gear Cover Ass'y						
		Sub Stopper (A)	Set Ring					
		Locator (A)	Socket (A) Ass'y					
		Lock Sleeve (A)	Steel Ball D3.175					
		O-Ring (S-28)						
		Fringer (A)						
		O-Ring (F)						

# Assembly Diagram for W 6V3



**PARTS**
**W 6V3**

ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
* 1	317-672	SUB STOPPER (A) FOR BIT HOLDER (41L)	1	FOR KUW,NZL,GBR,ITA,FRG,FRA,HOL,FIN, AUT,NOR,SWE,DEN,ESP,KOR	
* 1	317-673	SUB STOPPER (C) FOR BIT HOLDER (75L)	1	FOR AUS,FRG,CHN	
* 1	318-629	SUB STOPPER (E) FOR BIT HOLDER	1	FOR USA,CAN	
2	876-031	O-RING (S-16)	1		
3	317-666	LOCATOR (A)	1		
4	317-665	LOCK SLEEVE (A)	1		
5	873-731	O-RING (S-28)	1		
6	971-468	FRINGER (A)	1		
7	317-662	O-RING (F)	1		
8	306-664	TAPPING SCREW (W/FLANGE) D4X40	3		
9	318-342	GEAR COVER ASS'Y	1	INCLUD.7	
10	872-573	SET RING	1		
11	318-341	SOCKET (A) ASS'Y	1	INCLUD.10,12	
12	959-148	STEEL BALL D3.175 (10 PCS.)	2		
13	307-016	CLUTCH DISC	1		
14	306-024	SPRING	1		
15	318-340	GEAR	1		
16	608-VVM	BALL BEARING 608VVC2PS2L	1		
17	987-641	WASHER (A)	1		
18	318-339	INNER COVER ASS'Y	1	INCLUD.16,17	
19	608-VVM	BALL BEARING 608VVC2PS2L	2		
* 20	360-510C	ARMATURE 110V	1		
* 20	360-509U	ARMATURE ASS'Y 115V	1	INCLUD.19	
* 20	360-510E	ARMATURE 220V-230V	1		
* 20	360-510F	ARMATURE 240V	1		
21	305-398	FAN GUIDE (B)	1		
22	950-515	TAPPING SCREW D4X50	2		
* 23	340-436C	STATOR 110V-115V	1		
* 23	340-436E	STATOR 220V-230V	1		
* 23	340-224F	STATOR 240V	1		
24	317-659	HOUSING.HANDLE COVER SET	1		
25		NAME PLATE	1		
26	302-086	TAPPING SCREW (W/FLANGE) D4X20 (BLACK)	3		
* 27	314-916	SPEED CONTROL SWITCH (2P) 100V-115V	1		
* 27	314-921	SPEED CONTROL SWITCH (2P) 220V-240V	1		
* 28	317-668	INTERNAL WIRE (A)	1		
* 28	314-917	INTERNAL WIRE (B) (BLUE)	1	FOR KUW,USA,CAN	
* 29	317-669	INTERNAL WIRE (B)	1		
* 29	314-918	INTERNAL WIRE (B) (BROWN)	1	FOR KUW,USA,CAN	
* 30	999-041	CARBON BRUSH (1 PAIR)	2		
* 30	999-072	CARBON BRUSH (AUTO STOP TYPE) (1 PAIR)	2	FOR USA,CAN	
31	955-203	BRUSH HOLDER	2		
32	317-676	HOOK (A)	1		
33		HITACHI LABEL	1		
* 34	992-635	EARTH TERMINAL	1	EXCEPT FOR KUW,USA,CAN	
* 35	959-140	CONNECTOR 50091 (10 PCS.)	2	EXCEPT FOR KUW,USA,CAN	
* 36	317-667	INTERNAL WIRE	2	EXCEPT FOR KUW,USA,CAN	
* 37	930-039	NOISE SUPPRESSOR	1	EXCEPT FOR KUW,USA,CAN	
* 38	994-273	NOISE SUPPRESSOR	1	EXCEPT FOR KUW,USA,CAN	
39	305-812	TAPPING SCREW (W/FLANGE) D4X16 (BLACK)	2		

\* : ALTERNATIVE PARTS

10 - 99

**W 6V3**

10 – 99

\* : ALTERNATIVE PARTS

– 18 –

# STANDARD ACCESSORIES

W 6V3

ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
501	971-511Z	+ DRIVER BIT (A) NO.2 25L	1		
* 502	317-674	MAGNETIC BIT HOLDER ASS'Y (41L)	1	INCLUD.501 FOR KUW,NZL,GBR,ITA,FRG, FRA,HOL,FIN,AUT,NOR,SWE,DEN,ESP, KOR	
* 502	982-554Z	MAGNETIC BIT HOLDER (75L)	1	FOR AUS,FRG,USA,CAN,CHN	
* 503	310-904	CASE	1	FOR ESP	

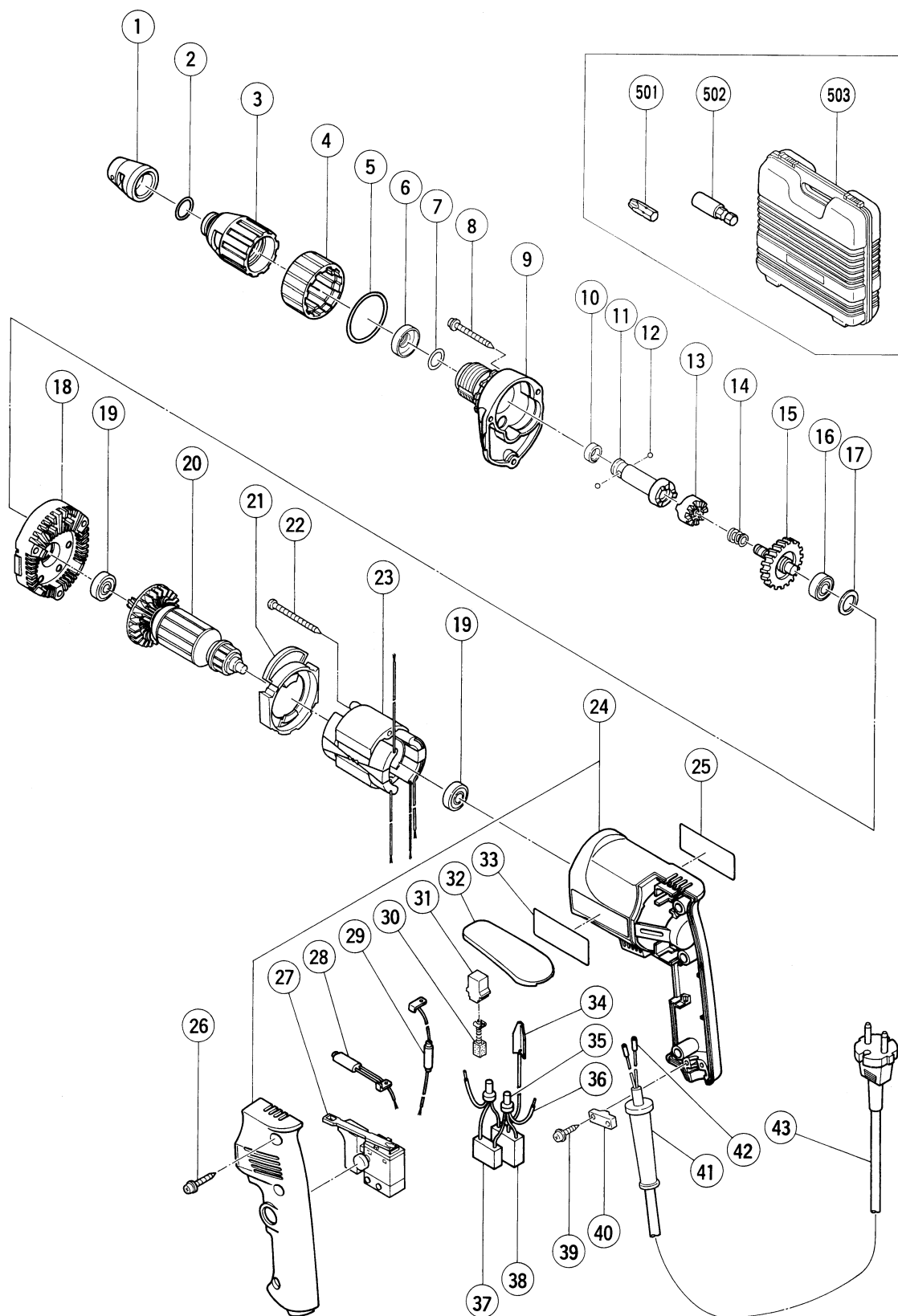
# OPTIONAL ACCESSORIES

ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
601	317-670	SUB STOPPER (B) FOR H3/8,H10 HEX. SOCKET	1		
602	317-671	SUB STOPPER (B) FOR H5/16 HEX. SOCKET	1		
603	317-827	SUB STOPPER (B) H1/4 HEX. SOCKET	1		
604	985-330	MAGNETIC HEX. SOCKET 3/8"X65L	1		
605	985-321	MAGNETIC HEX. SOCKET 10MMX65L	1		
606	985-322	MAGNETIC HEX. SOCKET 5/16"X65L	1		
607	985-332	MAGNETIC HEX. SOCKET 1/4"X65L	1		
608	985-326	NON-MAGNETIC HEX. SOCKET 3/8" 65L	1		
609	985-329	NON-MAGNETIC HEX. SOCKET 10MM 65L	1		
610	985-327	NON-MAGNETIC HEX. SOCKET 5/16" 65L	1		
611	985-328	NON-MAGNETIC HEX. SOCKET 1/4" 65L	1		
612	982-563Z	NON-MAGNETIC BIT HOLDER	1		
613	985-333	+ DRIVER BIT NO.1 25L	1		
614	971-512Z	+ DRIVER BIT (A) NO.3 25L	1		
615	985-334	+ DRIVER BIT NO.1 25L W/STEPPED ROD	1		
616	985-335	+ DRIVER BIT NO.2 25L W/STEPPED ROD	1		
617	985-336	- DRIVER BIT 4MMX25	1		
618	985-337	- DRIVER BIT 5MMX25	1		
619	985-338	- DRIVER BIT 6MMX25	1		
620	985-339	- DRIVER BIT 8MMX25	1		
621	985-340	- DRIVER BIT 4MMX25 (W/STEPPED ROD)	1		
622	985-341	- DRIVER BIT 5MMX25 (W/STEPPED ROD)	1		
623	985-342	HEX. BIT 4MMX25L	1		
624	985-343	HEX. BIT 5MMX25L	1		
625	985-344	HEX. BIT 6MMX25L	1		
626	310-904	CASE	1		
627	950-511	HOOK	1		

\* : ALTERNATIVE PARTS

Printed in Japan 10 - 99  
(991020 N)

# Assembly Diagram for W 6VA3



## PARTS

W 6VA3

ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
* 1	317-672	SUB STOPPER (A) FOR BIT HOLDER (41L)	1	FOR TPE,NZL,GBR,SAF,ITA,FRG,FRA,HOL,	
				FIN,AUT,NOR,SWE,DEN,ESP,SUI	
* 1	317-673	SUB STOPPER (C) FOR BIT HOLDER (75L)	1	FOR AUS,FRG,CHN	
* 1	318-629	SUB STOPPER (E) FOR BIT HOLDER	1	FOR USA,CAN	
2	876-031	O-RING (S-16)	1		
3	317-666	LOCATOR (A)	1		
4	317-665	LOCK SLEEVE (A)	1		
5	873-731	O-RING (S-28)	1		
6	971-468	FRINGER (A)	1		
7	317-662	O-RING (F)	1		
8	306-664	TAPPING SCREW (W/FLANGE) D4X40	3		
9	318-342	GEAR COVER ASS'Y	1	INCLUD.7	
10	872-573	SET RING	1		
11	318-341	SOCKET (A) ASS'Y	1	INCLUD.10,12	
12	959-148	STEEL BALL D3.175 (10 PCS.)	2		
13	307-016	CLUTCH DISC	1		
14	306-024	SPRING	1		
15	318-346	GEAR	1		
16	608-VVM	BALL BEARING 608VVC2PS2L	1		
17	987-641	WASHER (A)	1		
18	318-339	INNER COVER ASS'Y	1	INCLUD.16,17	
19	608-VVM	BALL BEARING 608VVC2PS2L	2		
* 20	360-512C	ARMATURE 110V	1		
* 20	360-511U	ARMATURE ASS'Y 115V	1	INCLUD.19	
* 20	360-512E	ARMATURE 220V-230V	1		
* 20	360-512F	ARMATURE 240V	1		
21	305-398	FAN GUIDE (B)	1		
22	950-515	TAPPING SCREW D4X50	2		
* 23	340-436C	STATOR 110V-115V	1		
* 23	340-436E	STATOR 220V-230V	1		
* 23	340-224F	STATOR 240V	1		
24	317-659	HOUSING.HANDLE COVER SET	1		
25		NAME PLATE	1		
26	302-086	TAPPING SCREW (W/FLANGE) D4X20 (BLACK)	3		
* 27	314-916	SPEED CONTROL SWITCH (2P) 100V-115V	1		
* 27	314-921	SPEED CONTROL SWITCH (2P) 220V-240V	1		
* 28	317-668	INTERNAL WIRE (A)	1		
* 28	314-917	INTERNAL WIRE (B) (BLUE)	1	FOR USA,CAN	
* 29	317-669	INTERNAL WIRE (B)	1		
* 29	314-918	INTERNAL WIRE (B) (BROWN)	1	FOR USA,CAN	
* 30	999-041	CARBON BRUSH (1 PAIR)	2		
* 30	999-072	CARBON BRUSH (AUTO STOP TYPE) (1 PAIR)	2	FOR USA,CAN	
31	955-203	BRUSH HOLDER	2		
32	317-676	HOOK (A)	1		
33		HITACHI LABEL	1		
34	992-635	EARTH TERMINAL	1	FOR NOISE SUPPRESSOR	
35	959-140	CONNECTOR 50091 (10 PCS.)	2		
36	317-667	INTERNAL WIRE	2		
37	930-039	NOISE SUPPRESSOR	1		
38	994-273	NOISE SUPPRESSOR	1		
39	305-812	TAPPING SCREW (W/FLANGE) D4X16 (BLACK)	2		

\* : ALTERNATIVE PARTS

10 - 99



# W 6VA3

10 – 99

\* : ALTERNATIVE PARTS

– 22 –

# STANDARD ACCESSORIES

W 6VA3

ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
501	971-511Z	+ DRIVER BIT (A) NO.2 25L	1		
* 502	317-674	MAGNETIC BIT HOLDER ASS'Y (41L)	1	INCLUD.501 FOR TPE,NZL,GBR,SAF,ITA,FRG,	
				FRA,HOL,FIN,AUT,NOR,SWE,DEN,ESP,SUI	
* 502	982-554Z	MAGNETIC BIT HOLDER (75L)	1	FOR AUS,FRG,USA,CAN,CHN	
* 503	310-904	CASE	1	FOR ESP	

# OPTIONAL ACCESSORIES

ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
601	317-670	SUB STOPPER (B) FOR H3/8,H10 HEX. SOCKET	1		
602	317-671	SUB STOPPER (B) FOR H5/16 HEX. SOCKET	1		
603	317-827	SUB STOPPER (B) H1/4 HEX. SOCKET	1		
604	985-330	MAGNETIC HEX. SOCKET 3/8"X65L	1		
605	985-321	MAGNETIC HEX. SOCKET 10MMX65L	1		
606	985-322	MAGNETIC HEX. SOCKET 5/16"X65L	1		
607	985-332	MAGNETIC HEX. SOCKET 1/4"X65L	1		
608	985-326	NON-MAGNETIC HEX. SOCKET 3/8" 65L	1		
609	985-329	NON-MAGNETIC HEX. SOCKET 10MM 65L	1		
610	985-327	NON-MAGNETIC HEX. SOCKET 5/16" 65L	1		
611	985-328	NON-MAGNETIC HEX. SOCKET 1/4" 65L	1		
612	982-563Z	NON-MAGNETIC BIT HOLDER	1		
613	985-333	+ DRIVER BIT NO.1 25L	1		
614	971-512Z	+ DRIVER BIT (A) NO.3 25L	1		
615	985-334	+ DRIVER BIT NO.1 25L W/STEPPED ROD	1		
616	985-335	+ DRIVER BIT NO.2 25L W/STEPPED ROD	1		
617	985-336	- DRIVER BIT 4MMX25	1		
618	985-337	- DRIVER BIT 5MMX25	1		
619	985-338	- DRIVER BIT 6MMX25	1		
620	985-339	- DRIVER BIT 8MMX25	1		
621	985-340	- DRIVER BIT 4MMX25 (W/STEPPED ROD)	1		
622	985-341	- DRIVER BIT 5MMX25 (W/STEPPED ROD)	1		
623	985-342	HEX. BIT 4MMX25L	1		
624	985-343	HEX. BIT 5MMX25L	1		
625	985-344	HEX. BIT 6MMX25L	1		
626	310-904	CASE	1		
627	950-511	HOOK	1		

\* : ALTERNATIVE PARTS

Printed in Japan 10 - 99  
(991020 N)