

**MODELS**

**C 7SB2**

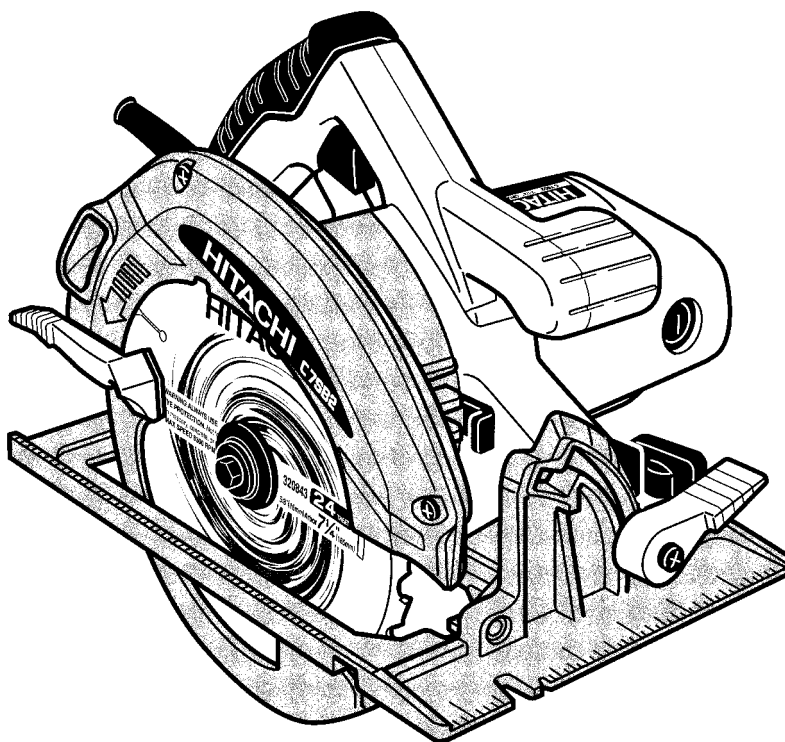
**C 7BD2**

# **Hitachi** **Power Tools**

**C**

## **CIRCULAR SAWS** **C 7SB2/C 7BD2**

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



LIST Nos. C 7SB2: 0591  
C 7BD2: 0592

Revised Aug. 2005

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:

Symbols Utilized	Competitors	
	Company Name	Model Name
C	MAKITA	5007NH 5007NBA
P	DEWALT	DW368 DW369CS



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## 1. PRODUCT NAME

Hitachi 7-1/4" Circular Saws, Models C 7SB2 and C 7BD2

## 2. MARKETING OBJECTIVE

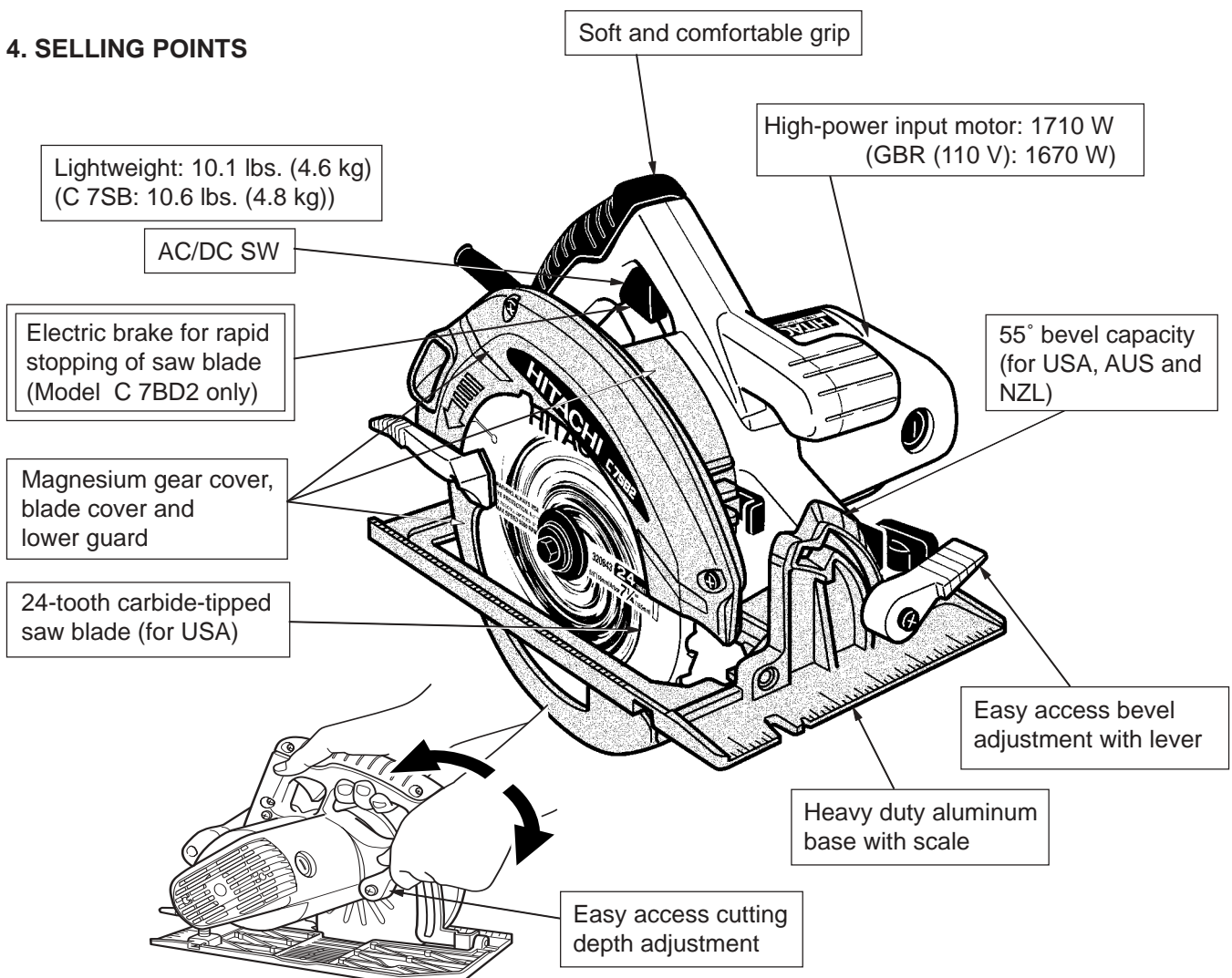
The current mainstream of professional-use circular saws is the 7-1/4 " (185 mm) class in the North America market. Although we have been selling the Models C 7SB and C 7BD (with brake) of this class, over 10 years have passed since the sales start in 1989. In addition, recently redesigned C, P and E are more competitive than the Models C 7SB and C 7BD. To cope with this situation, the new Models C 7SB2 and C 7BD2 are developed corresponding to the following market demands for convenience of operation.

- (1) High-power input: 1710 W (only GBR (110 V): 1670 W)
- (2) 24-tooth carbide-tipped saw blade (for USA. 18-tooth carbide-tipped saw blade for AUS, NZL and Europe)
- (3) AC/DC switch
- (4) Bevel adjustment lever
- (5) Base with scale
- (6) 55° bevel capacity (for U.S.A., AUS and NZL. Europe: 45°)
- (7) Soft grip handle

## 3. APPLICATIONS

Cutting of various types of wood materials

## 4. SELLING POINTS



#### 4-1. Selling Point Descriptions

##### (1) Lightweight, 10.1 lbs. (4.6 kg)

The motor is enlarged to increase the input and output power. The gear cover, blade cover and lower guard are made of magnesium diecasting alloy to minimize increase of the product weight. The table below shows a weight comparison with C (catalog weight 10.1 lbs., measured weight 10.6 lbs.).

Maker		Hitachi		Hitachi		C	
Model		C 7SB2	C 7BD2	C 7SB	C 7BD	5007NH	5007NBA
Catalog weight	lbs. (kg)	10.1 (4.6)		10.6 (4.8)		10.1 (4.6)	11.0 (5.0)
Measured weight	lbs. (kg)	10.6 (4.8)		10.6 (4.8)		10.6 (4.8)	11.0 (5.0)

Weight excludes cord.

##### (2) AC/DC switch (110 V and 120 V only)

The same AC/DC switch as the one used in the conventional Models C 7SB and C 7BD is adopted to correspond to the customer demand. The Models C 7SB2 and C 7BD2 are operable on a DC power supply such as a generator on a building site.

##### (3) 24-tooth carbide tipped saw blade (for USA)

The Models C 7SB2 for USA and C 7BD2 are equipped with the 24-tooth carbide tipped saw blade that is the current mainstream of standard saw blade. Green urethane painting is applied on the surface to distinguish the Hitachi saw blade from others at a glance.

##### (4) Soft and comfortable grip

The non-slip, soft and comfortable grip is adopted to improve the operability.

##### (5) High-power input motor: 1710 W (GBR (110 V): 1670 W)

The Models C 7SB2 and C 7BD2 are equipped with the high-power motor to increase the cutting ability.

##### (6) Easy access bevel adjustment with lever

The conventional wing bolt type bevel adjustment system is changed to the lever type for convenient bevel adjustment.

##### (7) 55° bevel capacity (for USA, AUS and NZL)

The bevel angle between the saw blade and the base is adjustable from 0° to 55° for wider application range (conventional Models C 7SB and C 7BD: 0° to 45°). For ease of operation, the adjustment section is divided into two ranges; one is adjustable from 0° to 45° for comparatively frequent use and the other is adjustable from 45° to 55° for less frequent use.

##### (8) Heavy-duty aluminum base with scale

The Models C 7SB2 and C 7BD2 are equipped with the heavy-duty aluminum die-cast base that is the same as the Models C 7SB and C 7BD. In addition, this base has scales at the front and the side for ease of operation.

##### (9) Easy access cutting depth adjustment

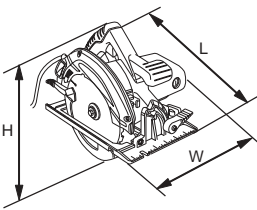
The position of the cutting depth adjustment lever is shifted from the gear cover side to the outside of the handle for easier cutting depth adjustment.

## 5. SPECIFICATIONS

Item		Model	C 7SB2		C 7BD2	
Saw blade diameter			7-1/4" (185 mm)			
Max. cutting depth	at 90°		2-3/8" (60 mm)			
	at 45°		1-27/32" (47 mm)			
	at 50° (for USA, AUS and NZL)		1-11/16" (43 mm)			
	at 55° (for USA, AUS and NZL)		1-17/32" (39 mm)			
Electric brake			None		Equipped	
Power source			AC single-phase 50/60 Hz (120 V AC/DC)			
Type of motor			AC single phase commutator motor			
Type of switch			Trigger switch			
Enclosure			Housing Polycarbonate resin Handle cover Polycarbonate resin Grip cover Polycarbonate resin, elastomer Gear cover Die-cast magnesium alloy Blade cover Die-cast magnesium alloy Lower guard Die-cast magnesium alloy Base Die-cast aluminum alloy			
Voltage [V]			110	120	230	240
Current [A]			16	15	7.8	7.5
Power input			1710 W, 1670 W (for GBR (110 V))			
Rotation speed	No-load		5,800/min.			
	Full-load		3,760/min.			
Weight	Net		Main body (excludes cord) ..... 10.1 lbs. (4.6 kg)			
	Gross		Main body, mold case, others ..... 16.3 lbs. (7.4 kg)			
Packing			Mold case			
Cord	Type		Two-core cabtire cable			
	Overall length		8.2 ft. (2.5 m)			
Standard accessories			Tungsten carbide tipped saw blade ..... 1 Box wrench ..... 1 Guide (for AUS, NZL and Europe) ..... 1 Mold case ..... 1			
Optional accessories			Guide ..... 1			

## 6. COMPARISONS WITH SIMILAR PRODUCT

### 6-1. Specification Comparison

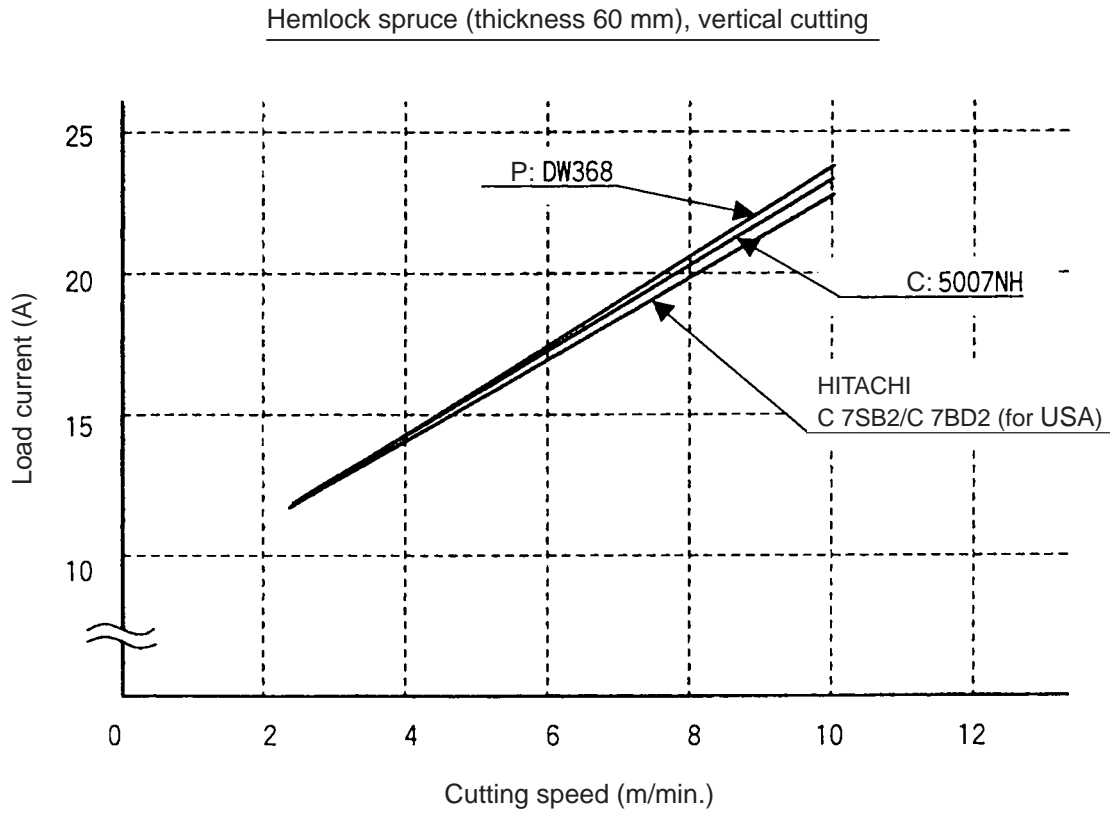
Maker • Model Item • Unit				HITACHI		C	P	HITACHI		C	P
				C 7SB2	C 7SB	5007NH	DW368	C 7BD2	C 7BD	5007NBA	DW369CS
Catalog specifications	Cutting depth	90°	in. (mm)	2-3/8 (60)	2-3/8 (60)	2-3/8 (60)	*1	2-3/8 (60)	2-3/8 (60)	2-3/8 (60)	*1
		45°	in. (mm)	1-27/32 (47)	1-27/32 (47)	1-3/4 (44)	*1	1-27/32 (47)	1-27/32 (47)	1-3/4 (46)	*1
		50°	in. (mm)	1-11/16 (43)	—	1-19/32 (40)	*1	1-11/16 (43)	—	—	*1
		55°	in. (mm)	1-17/32 (39)	—	—	*1	1-17/32 (39)	—	—	*1
	Saw blade dia.		in. (mm)	7-1/4 (185)	7-1/4 (185)	7-1/4 (185)	7-1/4 (184)	7-1/4 (185)	7-1/4 (185)	7-1/4 (185)	7-1/4 (184)
	Rated voltage		V	120	115	120	120	120	115	115	120
	Rated current		A	15	13	15	15	15	13	13	15
	No-load speed		/min.	5,800	5,500	5,800	5,800	5,800	5,500	5,800	5,800
	Weight (exclude cord)		lbs. (kg)	10.1 (4.6)	10.6 (4.8)	10.1 (4.6)	9.5 (4.3)	10.1 (4.6)	10.6 (4.8)	11.0 (5.0)	9.8 (4.4)
	Cord length		ft (m)	8.2 (2.5)	8.2 (2.5)	8.7 (2.65)	9.0 (2.75)	8.2 (2.5)	8.2 (2.5)	9.5 (2.9)	9.0 (2.75)
Characteristic	No-load speed		/min.	5,490	5,380	5,680	5,400	5,490	5,380	5,560	5,400
	Full-load speed		/min.	3,760	4,050	4,050	3,760	3,760	4,050	4,040	3,760
	Full-load torque		ft-lbs. (N•m)	1.72 (2.33)	1.23 (1.67)	1.60 (2.17)	1.73 (2.34)	1.72 (2.33)	1.23 (1.67)	1.25 (1.70)	1.73 (2.34)
	Max. output		W	2,100	1,680	2,150	2,060	2,100	1,680	1,880	2,060
	No-load noise		dB	92	90	92.5	88	92	90	90	88
Structure	Power source		—	AC/DC	AC	AC/DC	AC/DC	AC/DC	AC	AC	AC/DC
	Electric brake		—	None	None	None	None	Equipped	Equipped	Equipped	Equipped
	Material of base		—	Aluminum diecast	Aluminum diecast	Aluminum plate	Magnesium diecast	Aluminum diecast	Aluminum diecast	Aluminum plate	Composit
	Base scale	Front	—	Equipped	None	Equipped	None	Equipped	None	Equipped	None
		Side	—	Equipped	None	Equipped	Equipped	Equipped	None	Equipped	Equipped
	Soft grip		—	Equipped	None	None	None	Equipped	None	None	None
	Bevel adjustment		—	Lever	Wing bolt	Lever	Wing bolt	Lever	Wing bolt	Wing bolt	Lever
	Bevel capacity		—	55°	45°	50°	56°	55°	45°	45°	56°
	Unit: mm 			L: 305 H: 255 W: 245	L: 300 H: 242 W: 238	L: 305 H: 255 W: 235	L: 300 H: 260 W: 240	L: 305 H: 255 W: 245	L: 300 H: 242 W: 238	L: 300 H: 255 W: 235	L: 300 H: 260 W: 240
Service life of the carbon brush			hr	150	—	—	—	150	—	—	—

\*: These numeric values are for the models destined for the USA.

Refer to "5. SPECIFICATIONS" as the capacities are different depending on the destinations.

## 6-2. Practical Test Data

The graph below shows a comparison of practical cutting data among the Model C 7SB2 (for USA), C and P.  
(Note that the practical cutting data may vary depending on the conditions of the saw blade, workpiece material, etc.)



This graph shows the relation between the cutting speed and the load current. If the load current is low, the load applied to the motor is also low, and generally the cutting capacity is more excellent when comparing the cutting capacity at the same speed. Although the Model C 7SB2, C and P have almost the equivalent cutting capacity, the Model C 7SB2 has the most excellent cutting capacity as shown in the above graph.



## 7. PRECAUTIONS IN SALES PROMOTION

In the interest of promoting the safest and most efficient use of the Models C 7SB2 and C 7BD2 Circular Saws by all of our customers, it is very important that at the time of sale the salesman carefully ensures that the buyer seriously recognizes the importance of the contents of the Instruction Manual, and fully understands the meaning of the precautions listed on the Name Plate attached to each tool.

### 7-1. Handling Instructions

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

### 7-2. Caution Plate

The following basic safety precautions are listed on the Name Plate attached to the main body of each tool.

For the U.S.A.

- DANGER** ● Keep hands and body away from and to the side of the blade.  
Contact with blade will result in serious injury.
- WARNING** ● To reduce the risk of injury, user must read and understand instruction manual.  
Check lower guard. It must close instantly!  
Hold saw with both hands. Support and clamp work. Wear eye protection.

For AUS/NZL

**Hitachi Koki**

**CAUTION**

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

**C**

Made in China

C327611H

For Europe



### 7-3. Do Not Use Cut-Off Wheels

The Models C 7SB2 and C 7BD2 are not designed for use with cut-off wheels (grindstones). The customers must be cautioned that the use of a cut-off wheel would be extremely dangerous.

## 8. PRECAUTIONS IN DISASSEMBLY AND REASSEMBLY

The **[Bold]** numbers in the descriptions below correspond to the item numbers in the Parts List for the Model C 7SB2, and the **<Bold>** numbers for the Model C 7BD2. During disassembly and reassembly, and at all other times as well, sufficient care must be exercised in handling to ensure that is no deviation in the flatness of the bottom surface of the base and in its perpendicularity with relation to the saw blade.

### 8-1. Disassembly

(1) Prior to attempting further disassembly, ensure without fail that the TCT Saw Blade **[14]** **<14>** is removed to prevent damage to its cutting edge, and to avoid possible serious accident.

(2) Remove the Lower Guard **[7]** **<7>**:

First, disconnect the Return Spring **[8]** **<8>**. Then, loosen the two Seal Lock Flat Hd. Screws M4 x 10 **[12]** **<12>**, and take off the Bearing Cover **[11]** **<11>**. The Lower Guard **[7]** **<7>** can then be removed.

(3) Remove the Bearing Holder **[3]** **<3>** together with the Spindle and Gear Set **[2]** **<2>**:

After removing the Lower Guard **[7]** **<7>** as described above, loosen the two Seal Lock Flat Hd. Screws M5 x 14 **[4]** **<4>**, and take off the Bearing Holder **[3]** **<3>** together with the Spindle and Gear Set **[2]** **<2>**.

(4) Separate the Spindle and Gear Set **[2]** **<2>** from the Bearing Holder **[3]** **<3>**:

As illustrated in Fig. 1, support the Bearing Holder **[3]** **<3>** with an appropriate tubular jig, and push down on the end of the Spindle and Gear Set **[2]** **<2>** with a hand press to separate the Spindle and Gear Set **[2]** **<2>** from the Bearing Holder **[3]** **<3>**.

(5) Remove the Armature **[29]** **<29>**:

First, remove the Carbon Brushes (1 Pair) **[43]** **<43>**. Next, take off Lever (A) W/O Stopper **[68]** **<69>**, loosen the Long Nut **[67]** **<68>**, and remove the Bolt (Square) M6 x 20 **[39]** **<39>**. Then, loosen the Machine Screws (W/Washers) M5 x 55 **[20]** **<20>**, and separate the Housing Ass'y **[22]** **<22>** from the Gear Cover **[34]** **<34>**.

The Armature **[29]** **<29>** will remain within the Housing Ass'y **[22]** **<22>**. With a wooden or plastic hammer, tap gently on the outside of the Housing Ass'y **[22]** **<22>** to loosen and remove the Armature **[29]** **<29>**. At this time, be very careful not to hit the fan on the armature. Remove the Ball Bearing 6000VVCMP2L **[23]** **<23>** and Ball Bearing 6202VVCMP2L **[32]** **<32>** with a bearing puller, and remove Washer (A) **[24]** **<24>** and Dust Washer (B) **[31]** **<31>**.

(6) Remove the Base Ass'y **[59]** **<60>**:

Extract the Roll Pin D6 x 40 **[62]** **<63>** which connects the Base Ass'y **[59]** **<60>** and the Housing Ass'y **[22]** **<22>**, and separate them.

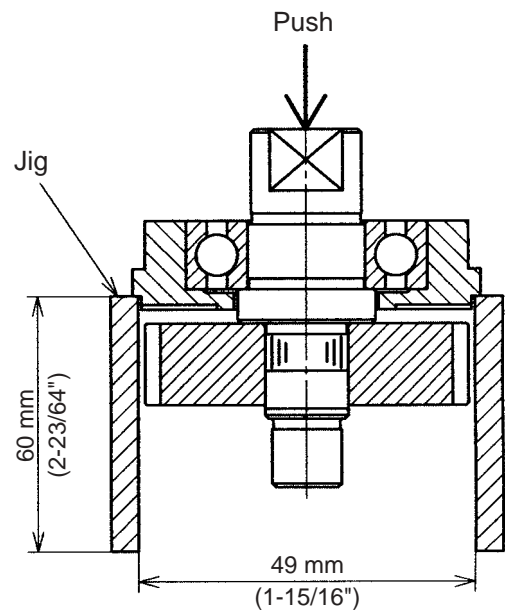


Fig. 1

## 8-2. Reassembly

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

(1) Tightening torque for fastening screws:

- M4 machine screws .....  $1.8 \pm 0.4 \text{ N}\cdot\text{m}$  (12 to 19 in-lbs.)
- M5 machine screws .....  $3.4 \pm 0.7 \text{ N}\cdot\text{m}$  (24 to 36 in-lbs.)
- Bolt (W/Flange) M8 x 15.5 [16] <16> .....  $9.8 \pm 2.0 \text{ N}\cdot\text{m}$  (70 to 105 in-lbs.)
- D4 tapping screw .....  $2.0 \pm 0.5 \text{ N}\cdot\text{m}$  (13 to 22 in-lbs.)
- D5 tapping screw .....  $2.9 \pm 0.5 \text{ N}\cdot\text{m}$  (22 to 30 in-lbs.)

(2) Reassembly of the Armature [29] <29>:

Prior to assembling the Armature [29] <29>, ensure that the Rubber Ring [33] <33> is properly inserted into the groove of the bearing case within the Gear Cover [34] <34>. At this time, be careful not to damage the Rubber Ring [33] <33>.

(3) Reassembly of the Lock Lever [30] <30>: (See Fig. 2.)

A. Position the Lock Lever [30] <30> between the fan and the Ball Bearing 6202VVCMP52L [32] <32>, and carefully assemble it together with the Armature [29] <29> into the Gear Cover [34] <34>.

B. Carefully ensure that both ends of the flat spring on the Lock Lever [30] <30> are properly supported inside the ribs of the Gear Cover [34] <34>, as illustrated in Fig. 2.

C. When assembly of the Lock Lever [30] <30> is completed (when the Gear Cover [34] <34> has been assembled to the Housing Ass'y [22] <22> and fastened with the Machine Screws (W/Washers) M5 x 55 [20] <20>, push the Lock Lever [30] <30> by hand and ensure that it returns smoothly to its original position when released.

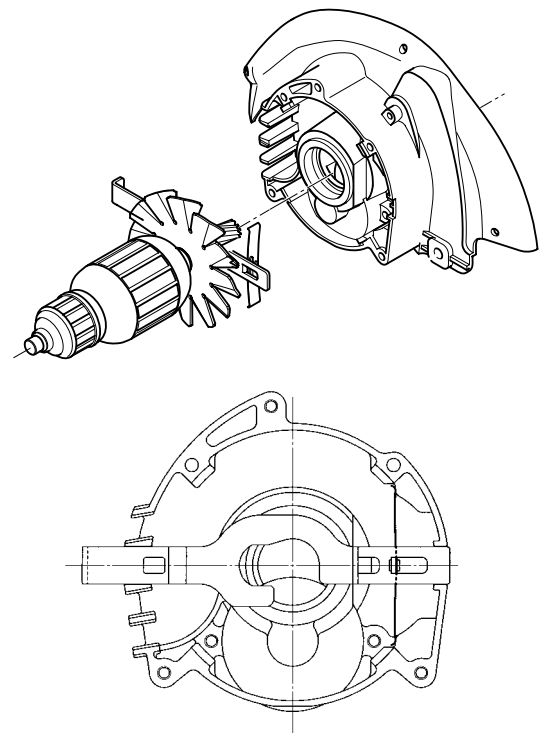


Fig. 2

(4) Lubrication:

Liberal apply designated lubricants as follows:

- Nippeco SEP-3A (Code No. 930035) within the gear cover: 10 gr.
- Multemp PS No. 2 (Code No. 939301 or 939536) in the ball bearings.

(5) Wiring diagrams (See Figs. from 3 to 6.):

A. Model C 7SB2

For the U.S.A.

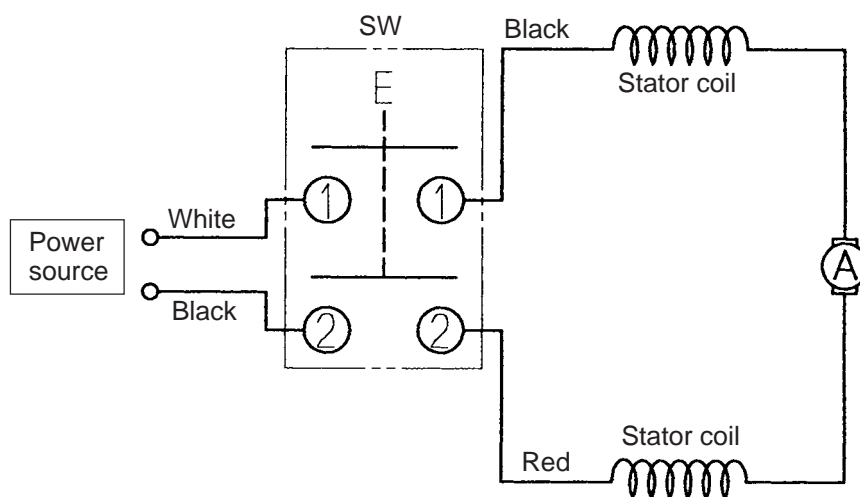


Fig. 3

For AUS/GBR (110 V)

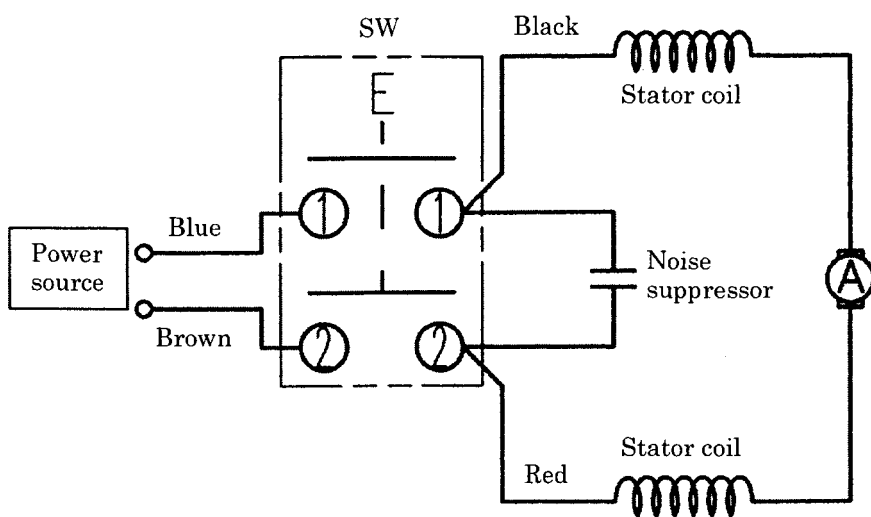


Fig. 4

For NZL/Europe

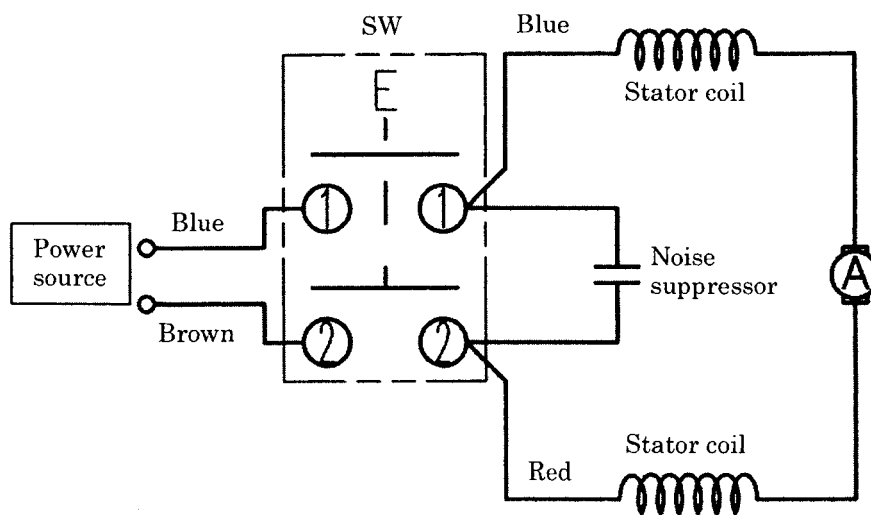


Fig. 5

B. Model C 7BD2

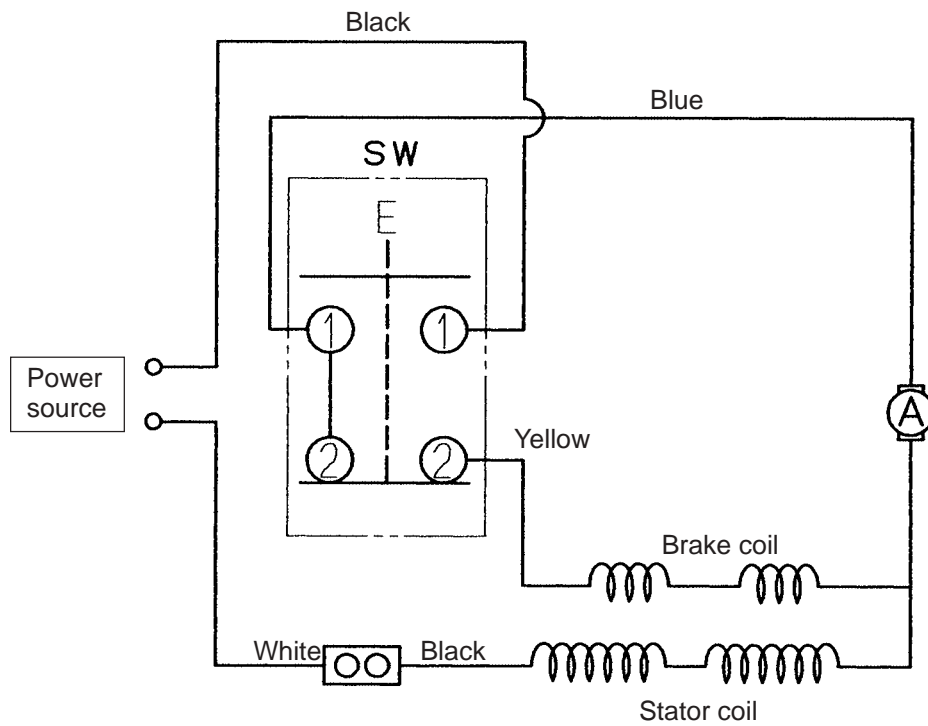


Fig. 6

(6) Internal wire arrangement (See Figs. from 7 to 10.):

Connect internal wires as illustrated in Figs. from 7 to 10.

At this time, ensure that none of the wires are pinched between components during reassembly.

A. Model C 7SB2

For the U.S.A.

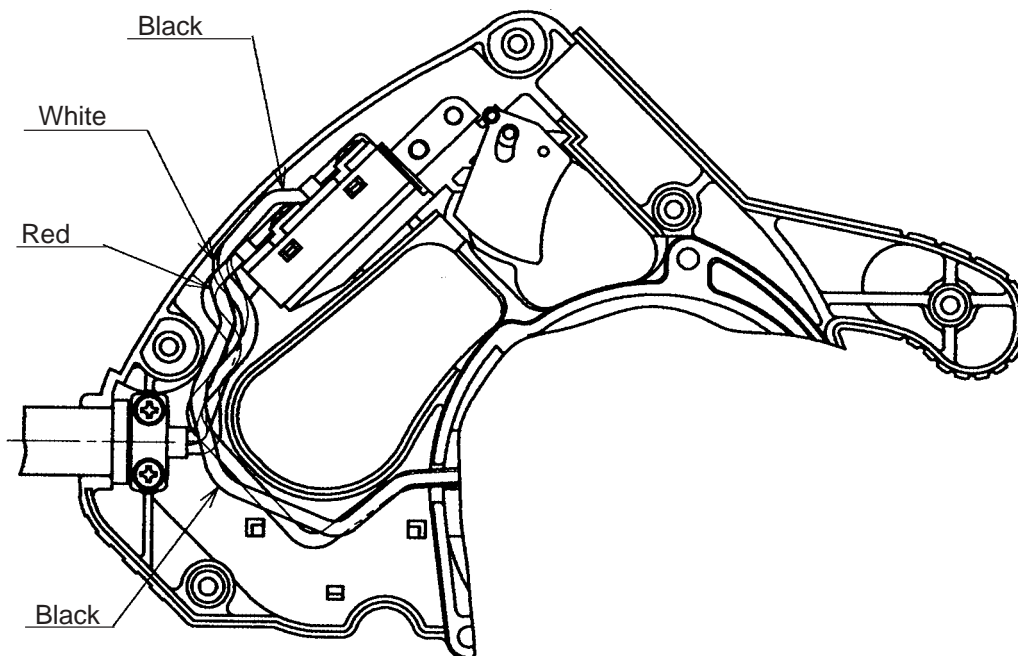


Fig. 7

For AUS/GBR (110 V)

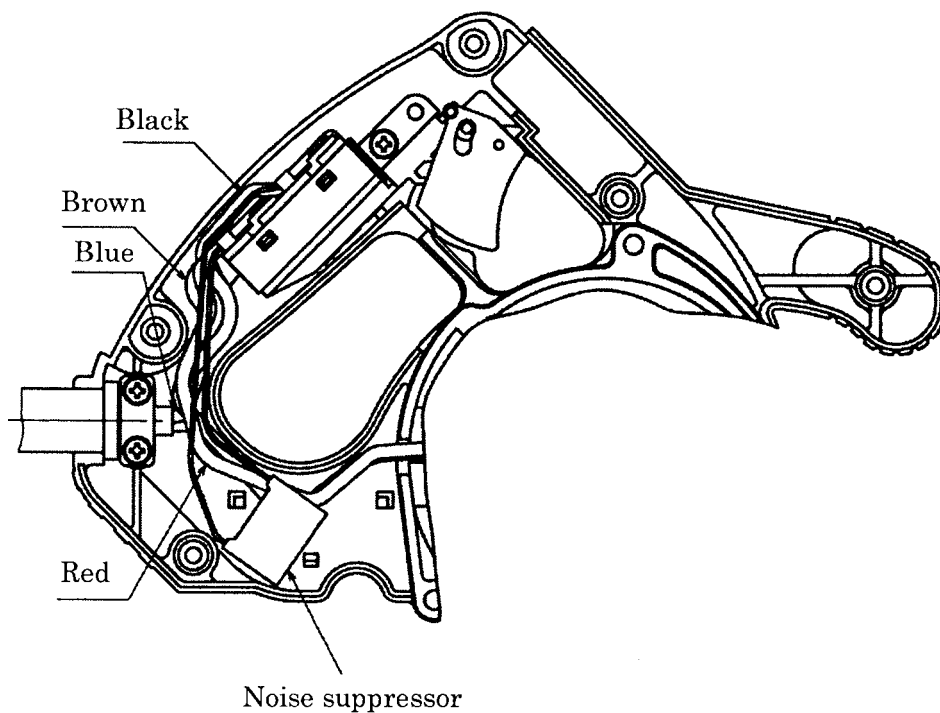


Fig. 8

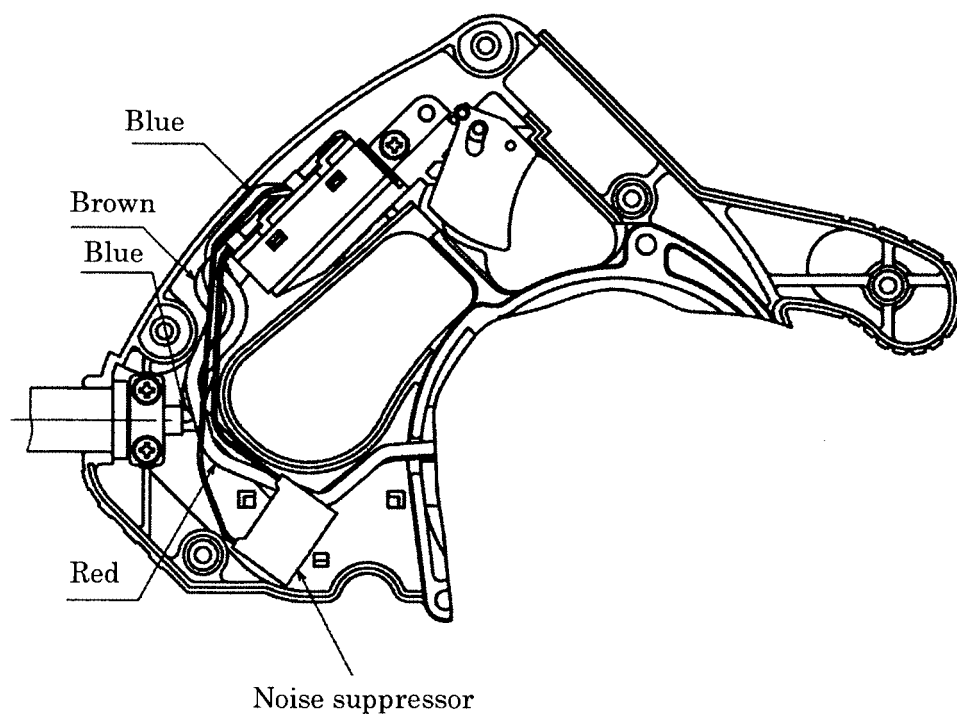


Fig. 9

B. Model C 7BD2

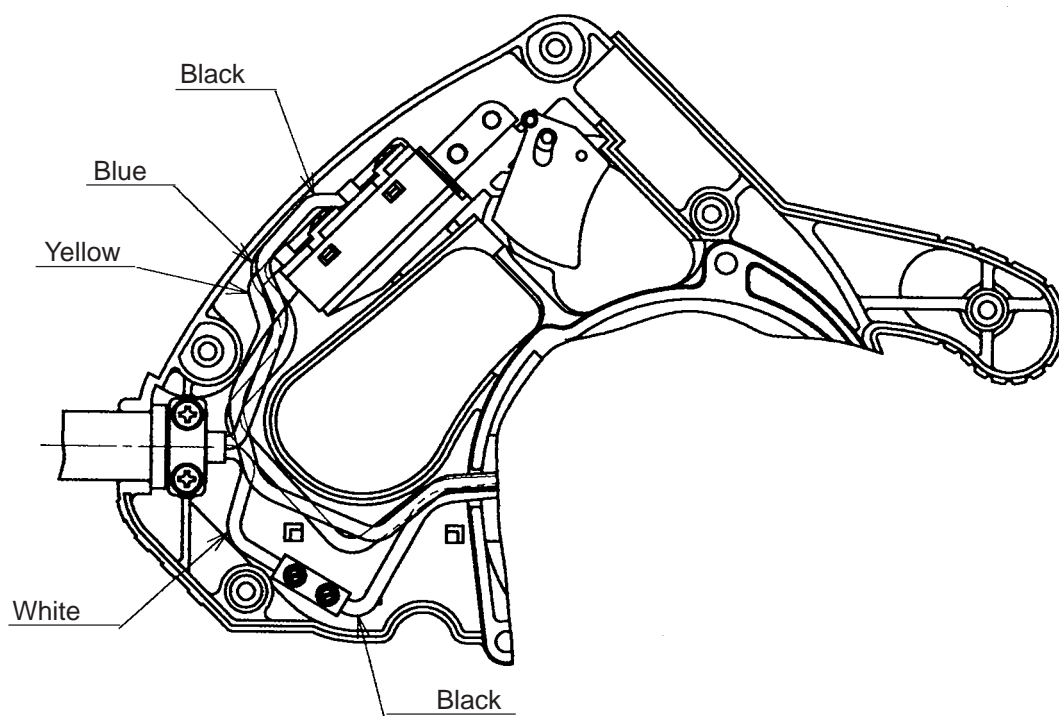


Fig. 10



(7) Insulation tests:

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

Insulation resistance: 7 M  $\Omega$  or more with DC 500 V Megohm Tester

Dielectric strength: AC 2,500V/1 minute,  
with no abnormalities

(8) Cleaning the cover:

Clean the exterior of the tool with a soft cloth moistened with soapy water, and dry thoroughly.

Chloric solvent, gasoline, and thinner will cause plastic components to dissolve.

9. STANDARD REPAIR TIME (UNIT) SCHEDULES

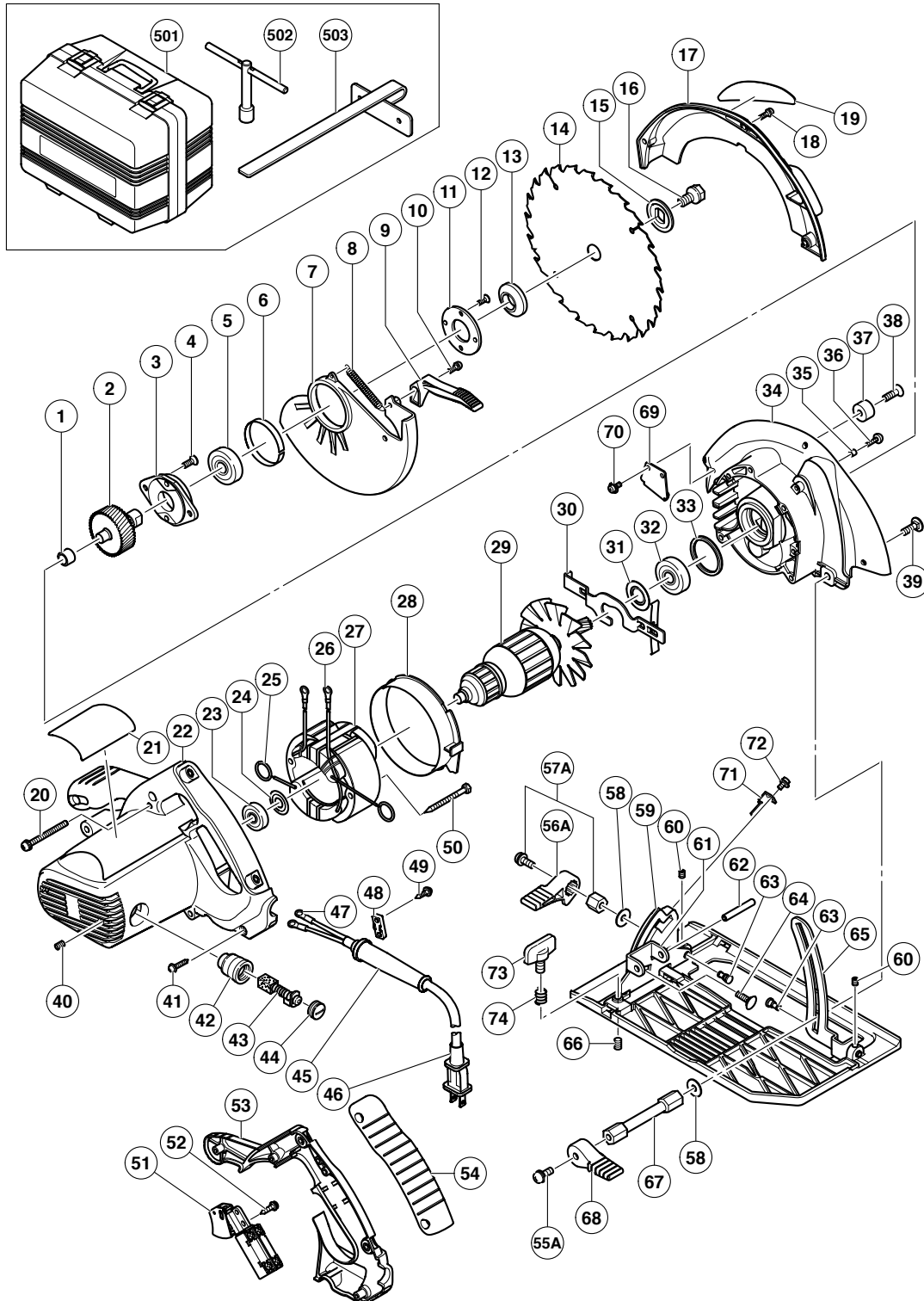
MODEL	Variable		10	20	30	40	50	60 min.
	Fixed							
<div>C 7SB2</div> <div>C 7BD2</div>		Work Flow						
				Switch Cord				
					Housing Ass'y Stator Ass'y			
		General Assembly						
		Safety Cover Return Spring		Armature Ball Bearing (6202VV) Ball Bearing (6000VV)				
				Gear Cover Spindle and Gear Set Ball Bearing (6003VV)				
		Base Ass'y		Needle Bearing				

## ELECTRIC TOOL PARTS LIST

### ■ CIRCULAR SAW Model C 7SB2

2005 · 7 · 8

(E2)



# PARTS

C 7SB2

ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
1	982-027	NEEDLE BEARING (HK1010)	1		
2	320-960	SPINDLE AND GEAR SET	1		
3	302-433	BEARING HOLDER	1		
4	992-013	SEAL LOCK FLAT HD. SCREW M5X14	2		
5	600-3VV	BALL BEARING 6003VVCMP2L	1		
6	961-807	BUSHING	1		
7	320-956	LOWER GUARD	1		
8	320-968	RETURN SPRING	1		
9	320-957	LEVER	1		
10	935-196	MACHINE SCREW (W/WASHERS) M4X12 (BLACK)	1		
11	302-435	BEARING COVER	1		
12	990-430	SEAL LOCK FLAT HD. SCREW M4X10	2		
* 13	320-970	WASHER (A)	1		
* 13	321-639	WASHER (A)	1	FOR AUS, NZL	
* 13	324-597	WASHER (A)	1	FOR EUROPE	
* 14	320-843	TCT SAW BLADE 185MM-D16 HOLE-NT24	1		
* 14	302-411	TCT SAW BLADE 185MM-D20 HOLE-NT18	1	FOR AUS, NZL	
* 14	302-412	TCT SAW BLADE 185MM-D30 HOLE-NT18	1	FOR EUROPE	
* 15	320-953	WASHER (B)	1		
* 15	324-598	WASHER (B)	1	FOR EUROPE	
16	320-971	BOLT (W/FLANGE) M8X15.5	1		
17	324-594	BLADE COVER	1		
18	951-039	MACHINE SCREW (W/SP. WASHER) M4X12	3		
19		HITACHI LABEL	1		
20	308-357	MACHINE SCREW (W/WASHERS) M5X55	3		
21		NAME PLATE	1		
22	320-951	HOUSING ASS'Y	1	INCLUD. 40, 42	
23	600-0VV	BALL BEARING 6000VVCMP2L	1		
24	302-428	WASHER (A)	1		
25	937-623	BRUSH TERMINAL	2		
26	930-804	TERMINAL M4.0 (10 PCS.)	2		
* 27	340-638G	STATOR ASS'Y 110V	1	INCLUD. 25, 26	
* 27	340-528C	STATOR ASS'Y 120V	1	INCLUD. 25, 26	
* 27	340-528G	STATOR ASS'Y 220V-230V	1	INCLUD. 25, 26	
* 27	340-528H	STATOR ASS'Y 240V	1	INCLUD. 25, 26	
28	320-958	FAN GUIDE	1		
* 29	360-577U	ARMATURE ASS'Y 110V-120V	1	INCLUD. 23, 24, 31, 32	
* 29	360-577G	ARMATURE 220V-230V	1		
* 29	360-577H	ARMATURE 240V	1		
30	320-959	LOCK LEVER	1		
31	980-700	DUST WASHER (B)	1		
32	620-2VV	BALL BEARING 6202VVCMP2L	1		
33	303-792	RUBBER RING	1		
* 34	320-954	GEAR COVER	1		
* 34	324-600	GEAR COVER	1	FOR EUROPE	
35	311-837	SPACER M4	1		
36	311-836	TP-SCREW M4X14	1		
37	961-729	CUSHION	1		
38	949-794	FLAT HD. SCREW M6X20 (10 PCS.)	1		
39	942-808	BOLT (SQUARE) M6X20	1		
40	938-477	HEX. SOCKET SET SCREW M5X8	2		

**C 7SB2**

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## STANDARD ACCESSORIES

**C 7SB2**

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## OPTIONAL ACCESSORIES

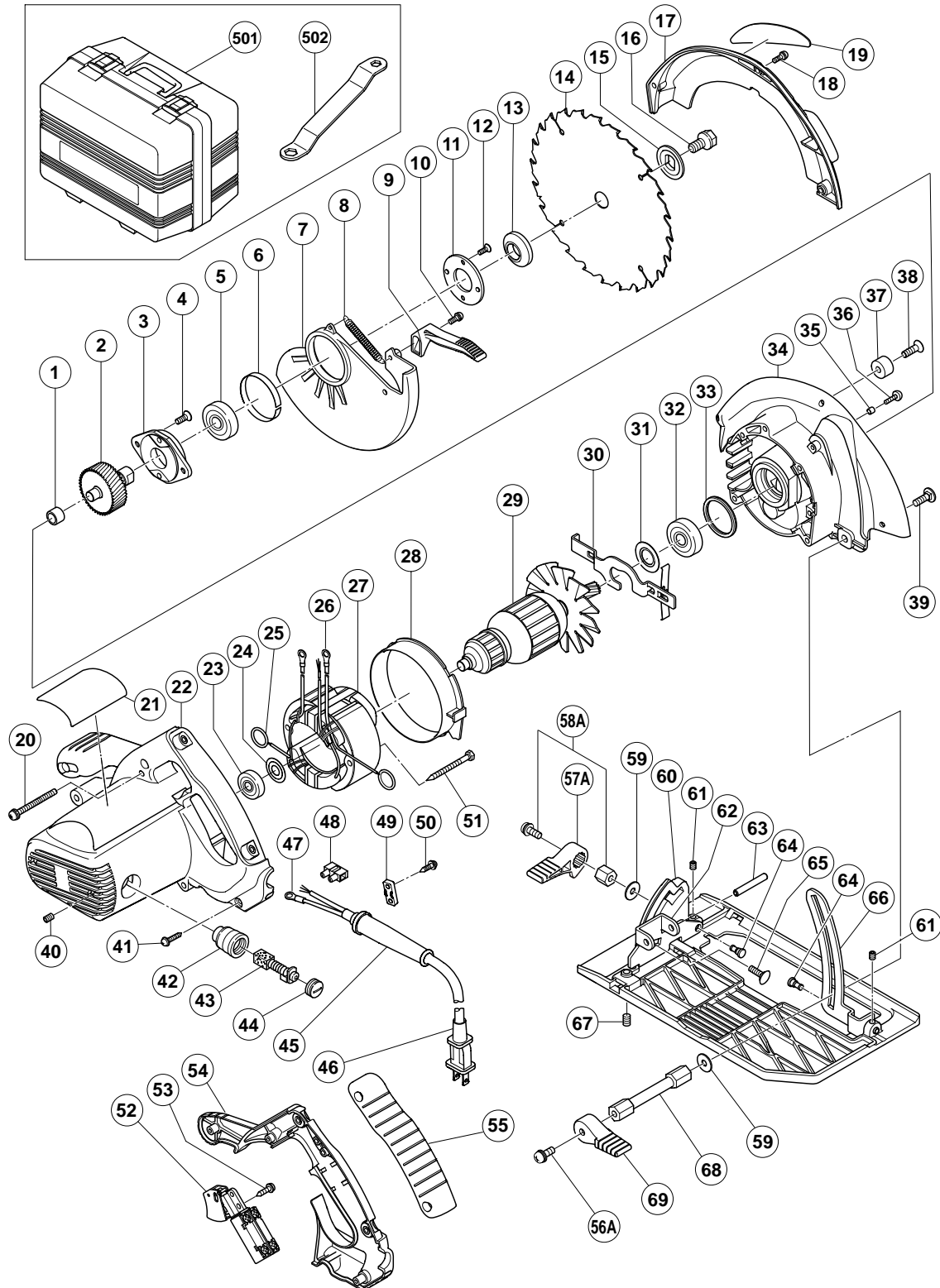
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## ELECTRIC TOOL PARTS LIST

### ■ CIRCULAR SAW Model C 7BD2

2005 • 8 • 10

(E2)



# PARTS

C 7BD2

ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
1	982-027	NEEDLE BEARING (HK1010)	1		
2	320-960	SPINDLE AND GEAR SET	1		
3	302-433	BEARING HOLDER	1		
4	992-013	SEAL LOCK FLAT HD. SCREW M5X14	2		
5	600-3VV	BALL BEARING 6003VVCMP2L	1		
6	961-807	BUSHING	1		
7	320-956	LOWER GUARD	1		
8	320-968	RETURN SPRING	1		
9	320-957	LEVER	1		
10	935-196	MACHINE SCREW (W/WASHERS) M4X12 (BLACK)	1		
11	302-435	BEARING COVER	1		
12	990-430	SEAL LOCK FLAT HD. SCREW M4X10	2		
13	320-970	WASHER (A)	1		
14	320-843	TCT SAW BLADE 185MM-D16 HOLE-NT24	1		
15	320-953	WASHER (B)	1		
16	320-971	BOLT (W/FLANGE) M8X15.5	1		
17	324-594	BLADE COVER	1		
18	951-039	MACHINE SCREW (W/SP. WASHER) M4X12	3		
19		HITACHI LABEL	1		
20	308-357	MACHINE SCREW (W/WASHERS) M5X55	3		
21		NAME PLATE	1		
22	320-951	HOUSING ASS'Y	1	INCLUD. 40, 42	
23	600-0VV	BALL BEARING 6000VVCMP2L	1		
24	302-428	WASHER (A)	1		
25	937-623	BRUSH TERMINAL	2		
26	930-804	TERMINAL M4.0 (10 PCS.)	2		
27	340-527C	STATOR ASS'Y 120V	1	INCLUD. 25, 26	
28	320-958	FAN GUIDE	1		
29	360-577U	ARMATURE ASS'Y 110V-120V	1	INCLUD. 23, 24, 31, 32	
30	320-959	LOCK LEVER	1		
31	980-700	DUST WASHER (B)	1		
32	620-2VV	BALL BEARING 6202VVCMP2L	1		
33	303-792	RUBBER RING	1		
34	320-954	GEAR COVER	1		
35	311-837	SPACER M4	1		
36	311-836	TP-SCREW M4X14	1		
37	961-729	CUSHION	1		
38	949-794	FLAT HD. SCREW M6X20 (10 PCS.)	1		
39	942-808	BOLT (SQUARE) M6X20	1		
40	938-477	HEX. SOCKET SET SCREW M5X8	2		
41	301-653	TAPPING SCREW (W/FLANGE) D4X20 (BLACK)	5		
42	938-241	BRUSH HOLDER	2		
43	999-038	CARBON BRUSH (1 PAIR)	2		
44	945-161	BRUSH CAP	2		
45	940-778	CORD ARMOR D10.7	1		
46	500-453Z	CORD	1	(CORD ARMOR D10.7)	
47	930-804	TERMINAL M4.0 (10 PCS.)	1		
48	938-307	PILLAR TERMINAL	1		
49	937-631	CORD CLIP	1		
50	984-750	TAPPING SCREW (W/FLANGE) D4X16	2		
51	953-121	HEX. HD. TAPPING SCREW D5X50	2		



## PARTS

**C 7BD2**

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## STANDARD ACCESSORIES

**C 7BD2**

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## OPTIONAL ACCESSORIES

[illegible]

