

MODELS

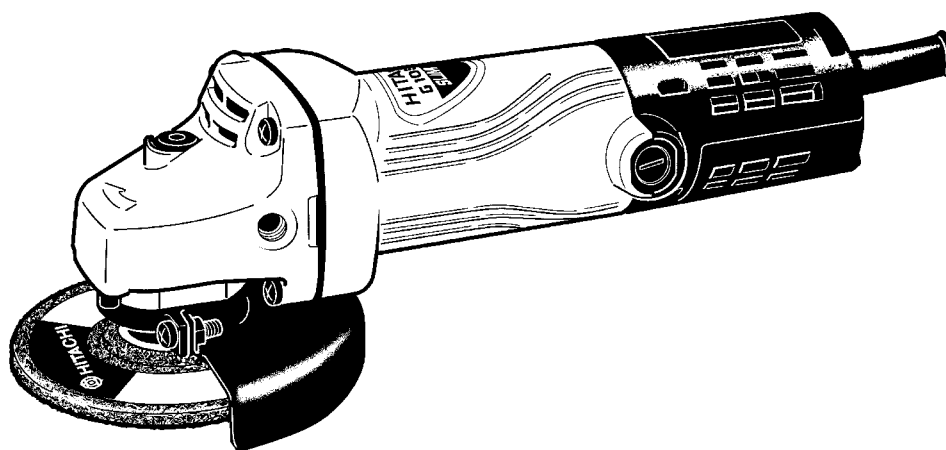
PDA-100K

G 10SK3

Hitachi **Power Tools**

DISC GRINDER
PDA-100K
G 10SK3

TECHNICAL DATA
AND
SERVICE MANUAL



LIST Nos. PDA-100K: E265
G 10SK3: E264

Dec. 2003

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
B	BOSCH	GWS6-100
C1	MAKITA	9523NB
C2	MAKITA	9526B



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1. PRODUCT NAME

Hitachi Disc Grinder, Models PDA-100K [100 mm (4")]

G 10SK3 [100 mm (4")]

2. MARKETING OBJECTIVE

The conventional Model PDA-100G has obtained high evaluation for its class-first aluminum double-insulated housing, powerful motor, small-diameter grip and light weight in the Southeast Asian market. The conventional Model G 10SK2 has also obtained high evaluation as a double-insulated product featuring a small-diameter grip and light weight. However, the price competition is becoming fierce in the market and there is a demand for more durable armature ass'y and bearing in the gear cover. To address the severe situation and the demand, we introduce the new disc grinders Models PDA-100K and G 10SK3 that are the upgraded versions of the conventional Models PDA-100G and G 10SK2 on the market.

The main improvements are as follows:

- ① Dust resistance was increased thanks to the application of adhesive to the commutator hook of the armature ass'y.
- ② The bearing in the gear cover was changed from the metal bearing to the needle bearing to increase the service life and durability.

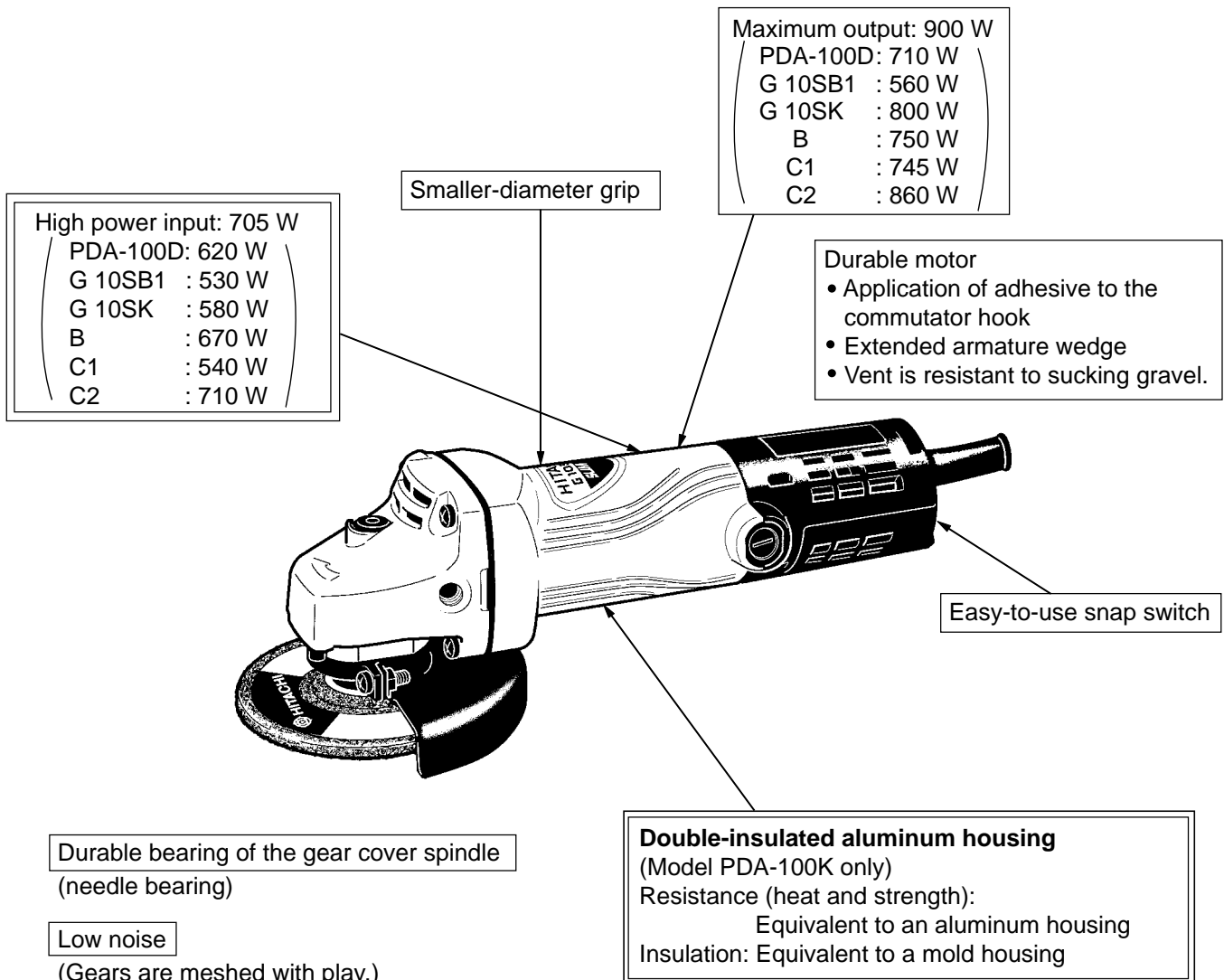
After upgrading	Before upgrading
PDA-100K	PDA-100G
G 10SK3	G 10SK2

Please expand the sales of the new Models PDA-100K and G 10SK3 as well as the conventional Models PDA-100G and G 10SK2.

3. APPLICATIONS

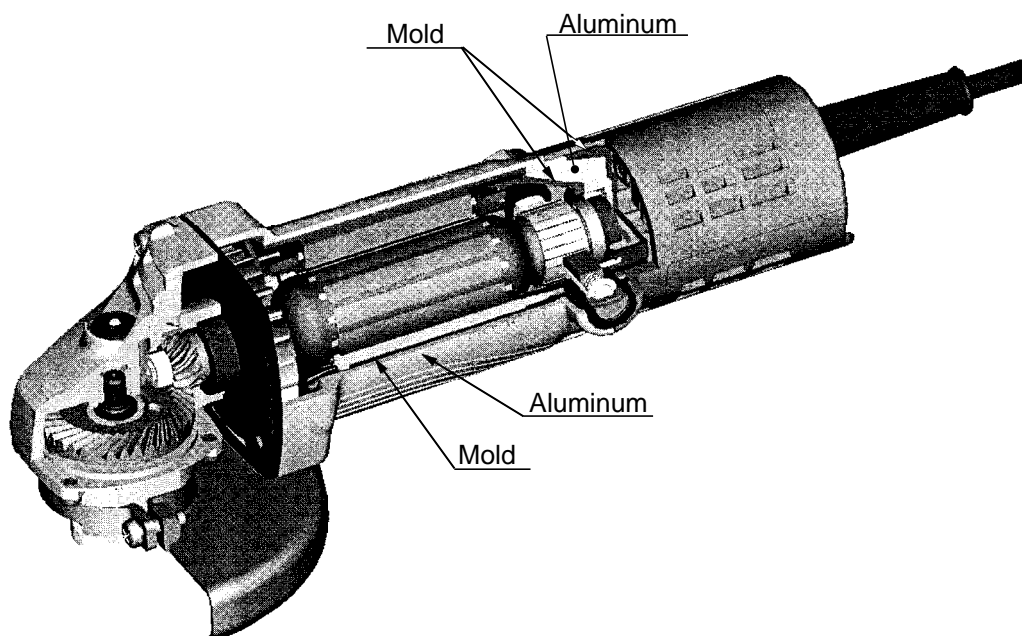
- Removal of casting fin and finishing of various types of steel, bronze, aluminum, and other metallic materials and castings
- Grinding of welded sections, or sections cut by acetylene torch
- Grinding of slate, brick, marble and similar materials

4. SELLING POINTS



● Double-insulated aluminum housing (Model PDA-100K only)

Injection molding is partially conducted on the conventional aluminum die-cast housing to make the aluminum housing double-insulated. Thus the Model PDA-100K offers high insulation and light weight that are advantages of a mold housing as well as resistance against heat and external force that is an advantage of an aluminum housing. The Model PDA-100K causes no melting in the ball bearing chamber that is a weak point of the mold housing thanks to the new housing construction and the service life of the housing is longer than the conventional model.



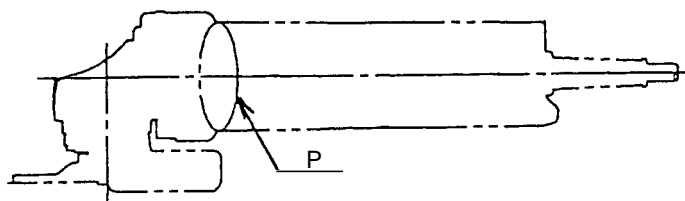
● Small-diameter grip

The Models PDA-100K and G 10SK3 are equipped with a small-diameter grip that is common to the well-reputed conventional models. The Model PDA-100K offers higher operability than the conventional Model PDA-100D and the Model G 10SK3 offers operability equivalent to the conventional Model G 10SK.

In addition, the Models PDA-100K and G 10SK3 are lightweight and offer less user fatigue even though they are used for a long time.

Maker		HITACHI				B	C1	C2
Model		PDA-100K (PDA-100G)	PDA-100D	G 10SK3 (G 10SK2)	G 10SK			
Perimeter of grip*	mm	187	200	176	176	191	195	204

* Perimeter of grip is the dimension "P" shown below.



- High power input and maximum power output

The Models PDA-100K and G 10SK3 are compact and lightweight, but powerful and offer higher power input than the conventional Models PDA-100D and G 10SK thanks to the high-power motor. It is said that the greater the maximum power output/weight is, the better performance the motor offers. Table 1 shows a comparison of the motor performance. It is clear that the Models PDA-100K and G 10SK3 have higher performance than the conventional Models PDA-100D and G 10SK respectively.

Table 1

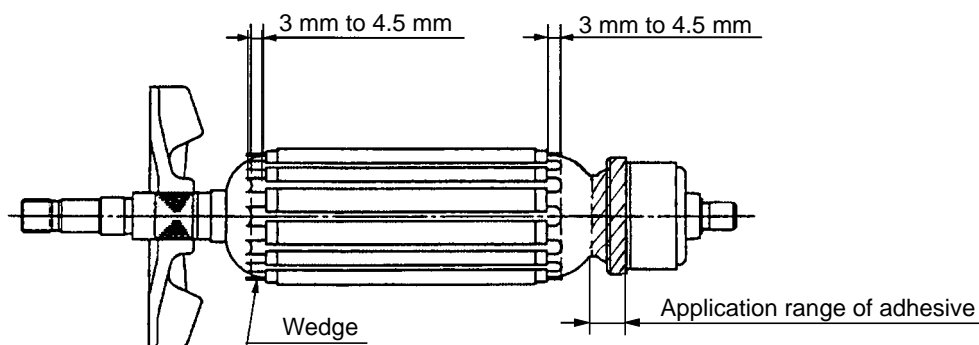
Maker		HITACHI				B	C1	C2
Model		PDA-100K (PDA-100G)	PDA-100D	G 10SK3 (G 10SK2)	G 10SK			
Power input	W	705	620	705	580	670	540	710
Max. power output	W	900	800	900	820	760	770	860
Weight* (actual)	kg	1.55	1.95	1.39	1.34	1.40	1.48	1.75
Max. power output/weight	W/kg	581	410	647	612	543	520	491

* Actual weight excludes cord, depressed center wheel, wheel nut, wheel washer and wheel guard.

- Durable motor

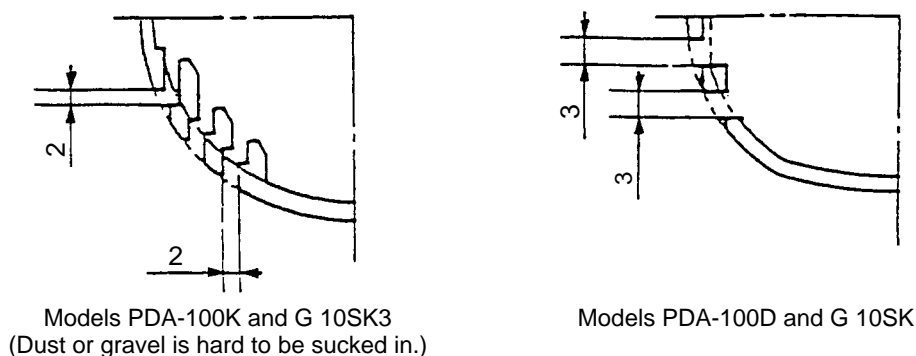
The Models PDA-100K and G 10SK3 are equipped with a motor whose durability is greater than the conventional models by making the following improvements. The service life of the armature coil is 2 times longer than the conventional models as a result of the gravel suction test (gravel is forcedly sucked in through the vents of the tail cover).

The wedges at both ends of the armature coil are extended by 3 to 4.5 mm to protect the portions where the peripheral speed is the fastest and apt to be disconnected by dust or gravel. Thanks to the application of adhesive to the commutator hook, the hook has higher resistance to deformation or disconnection than the conventional models when dust hits the hook.



New vent construction is adopted to prevent dust or gravel from getting inside.

(Comparison of vent construction)



● Durable bearing of the gear cover spindle

The bearing of the gear cover spindle was changed from the metal bearing to the needle bearing to increase the service life and durability.

● Low gear noise

The gear fastening method is changed from the conventional press-fitting method to the new method. The gear is fastened to the spindle by a woodruff key keeping a proper clearance to reduce the variations in gear noise level to the minimum level.

5. SPECIFICATIONS

Item \ Model		PDA-100K	G 10SK3															
Depressed center wheel	Dimensions	O.D. 100 mm (4") x Thickness 6 mm (1/4") x I.D. 16 mm (5/8") Offset amount: 4 mm (5/32")																
	Max. peripheral speed	4,300 m/min (14,100 ft/min, 72 m/s)																
Power source		AC single phase 50 or 60 Hz																
Voltage, current and power input		<table><tr><td>Voltage (V)</td><td>Current (A)</td><td colspan="2">Power input (W)</td></tr><tr><td>110</td><td>6.7</td><td colspan="2" rowspan="4">705</td></tr><tr><td>220</td><td>3.3</td></tr><tr><td>230</td><td>3.2</td></tr><tr><td>240</td><td>3.1</td></tr></table>			Voltage (V)	Current (A)	Power input (W)		110	6.7	705		220	3.3	230	3.2	240	3.1
		Voltage (V)	Current (A)	Power input (W)														
		110	6.7	705														
		220	3.3															
		230	3.2															
240	3.1																	
Rotation speed (no-load)		12,000/min																
Type of motor		AC single-phase commutator motor																
Type of switch		Snap switch																
Enclosure	Housing	Aluminum alloy die casting (metallic silver) and glassfiber reinforced polyamide resin (green)		Glassfiber reinforced polyamide resin (green)														
	Tail cover	Glassfiber reinforced polyamide resin (black)																
	Gear cover	Aluminum alloy die casting (metallic silver)																
	Packing gland	Aluminum alloy die casting																
Weight	Net: *1	1.5 kg (3.3 lbs.)		1.4 kg (3.1 lbs.)														
	Gross:	2.5 kg (5.5 lbs.)		2.4 kg (5.3 lbs.)														
Packaging		Corrugated cardboard box																
Standard accessories*2		Depressed center wheel [Outer dia.100 mm (4")] 1 Wrench 1																

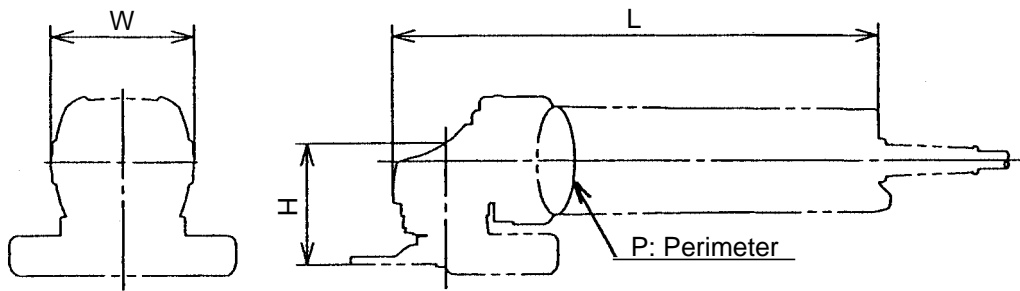
*1 : Net weight excludes cord, depressed center wheel, wheel nut, wheel washer and wheel guard.

*2 : Standard accessories are subject to change without prior notice.

6. COMPARISONS WITH SIMILAR PRODUCTS

6-1. Specification Comparisons

Maker			HITACHI				B	C1	C2
Model			PDA-100K (PDA-100G)	PDA-100D	G 10SK3 (G 10SK2)	G 10SK			
Wheel diameter	mm		100	100	100	100	100	100	100
No-load speed	/min		12,000	12,000	12,000	12,000	11,000	11,000	11,000
Power input	W		705	620	705	580	670	540	710
Power output	W		440	410	440	330	360	250	370
Max. power output	W		900	800	900	820	760	770	860
Dimensions	L	mm	258	254	258	254	265	256	260
	W	mm	72	67	72	67	76	81	67
	H	mm	63	60	63	60	73	70	68
	P	mm	187	200	176	176	191	195	204
Weight *	Catalog	kg	1.5	1.7	1.4	1.4	1.4	1.4	1.6
	Actual	kg	1.6	2.0	1.4	1.4	1.4	1.5	1.8
Type of switch	—		Snap	Snap	Snap	Snap	Slide	Slide	Snap



* Weight excludes cord, depressed center wheel, wheel nut, wheel washer and wheel guard.

6-2. Comparisons in Torque vs. Rotation Speed and Stator Coil Temperature Rise

Figure 1 shows comparisons of the rotation speed and the stator coil temperature rise between a competitive model with respect to torque. Torque represents the magnitude of load, i.e., the amount of pressing force, cutting depth and forward force in actual cutting jobs. This shows that a powerful motor is less likely to burn out because it has both a minimum drop of rotation speed even at a greater torque and a lower stator coil temperature rise at the same torque.

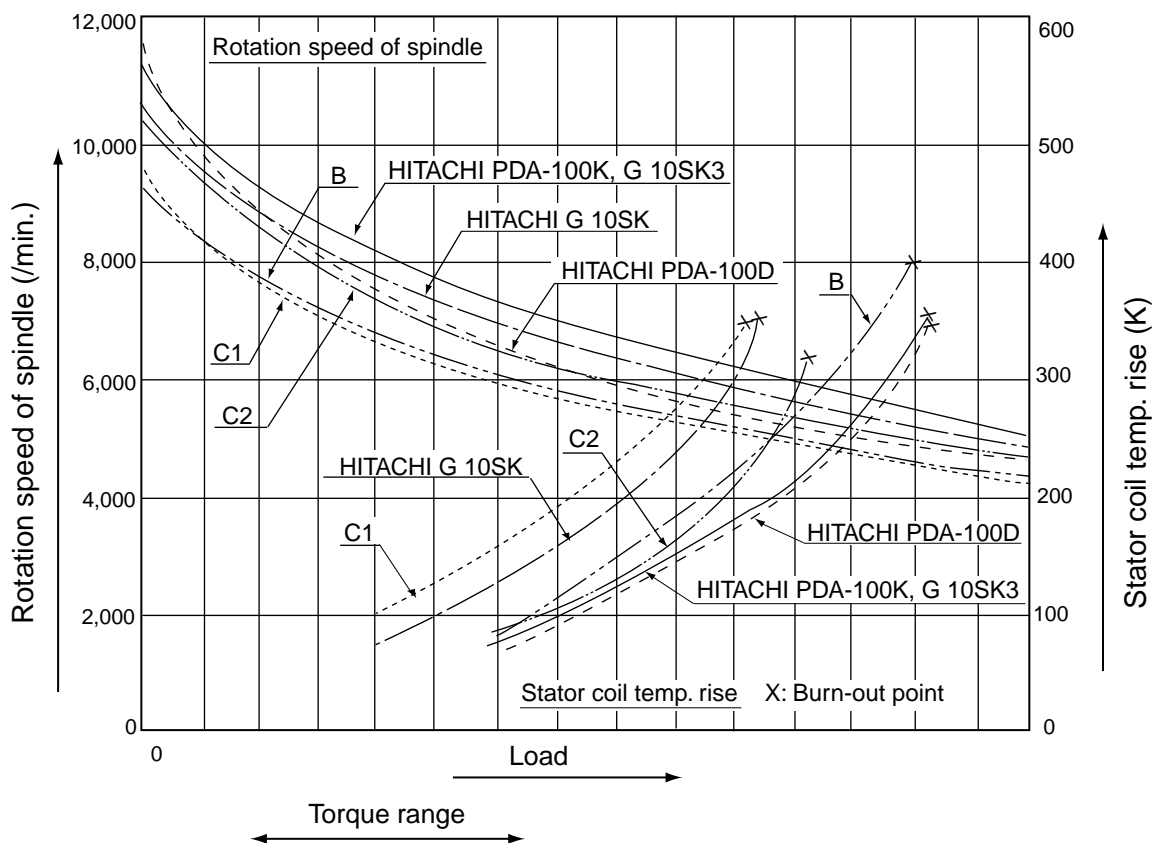


Fig. 1 Comparisons in torque vs. rotation speed and stator coil temperature rise

Figure 1 indicates the following:

- ① The motor speed of the Models PDA-100K and G 10SK3 is higher than that of B, C, Models PDA-100D and G 10SK at the same torque. This means that the working efficiency of the Models PDA-100K and G 10SK3 are superior to B, C, Models PDA-100D and G 10SK.
- ② The stator coil temperature rise of the Models PDA-100K and G 10SK3 is lower than that of B, C and Model G 10SK thanks to the improved cooling mechanism and it is equivalent to that of the Model PDA-100D. This means that the Models PDA-100K and G 10SK3 have a burn-resistant and tenacious motor.

7. PRECAUTIONS IN SALES PROMOTION

In the interest of promoting the safest and most efficient use of the Models PDA-100K and G 10SK3 disc grinders by all of our customers, it is very important that at the time of sale, the salesperson carefully ensures that the buyer seriously recognizes the importance of the contents of the Handling Instructions, and fully understands the meaning of the precautions listed on the nameplate 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 any 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 disc grinders are listed in the Handling Instructions to enhance the safe, efficient use of the tool by the customer. Salespersons must be thoroughly familiar with the contents of the Handling Instructions to be able to offer appropriate guidance to the customer during sales promotion.

7-2. Caution Plate

The following caution is listed on the nameplate attached to the main body of each tool.

(1) For Taiwan

注意
使用前請詳讀使用說明書禁止在雨中使用

(2) For China

注意：使用前請仔細閱讀使用說明書

7-3. Precautions on Usage

Instruct the customer to pay particular attention to the two points described below.

(1) Use of the side handle (Optional accessory)

When the side handle is used, the customer must be instructed to ensure without fail that the wheel guard is mounted in the manner so that it protects the operator's hand from coming into contact with the depressed center wheel.

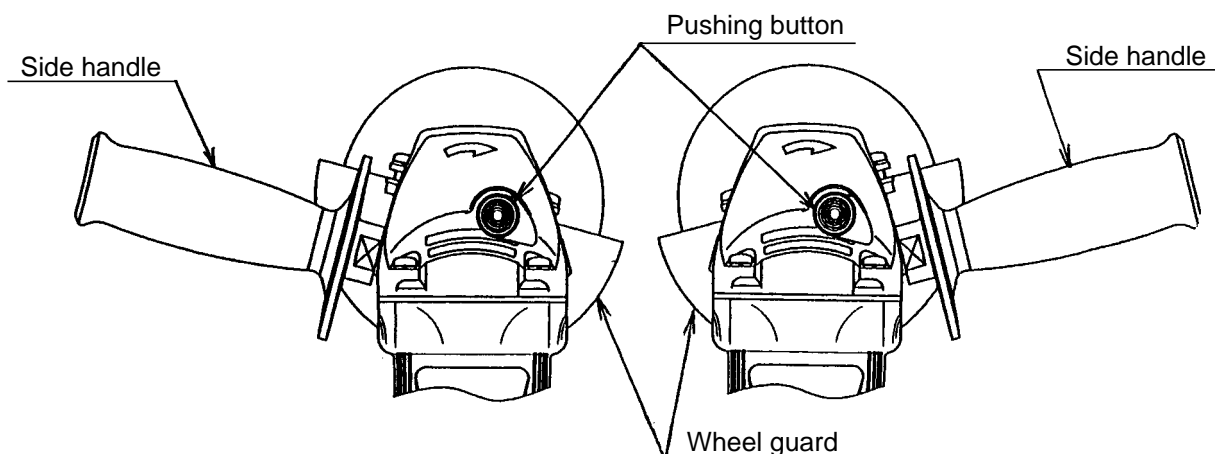


Fig. 2

(2) Never press the pushing button while the depressed center wheel is rotating.

If the pushing button (Fig. 2) is pressed while the depressed center wheel is rotating, the spindle will stop immediately. In such a case, there is a danger that the wheel nut may be loosened, so that the depressed center wheel flies out unexpectedly and may cause possibly serious injury.

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 for Model PDA-100K, and the **<Bold>** numbers to those in the Parts List and the exploded assembly diagram for Model G 10SK3.

8-1. Disassembly

(1) Disassembly of the armature

- 1) Remove the Brush Caps **[40]** **<39>** and take out the Carbon Brushes **[41]** **<40>**.
- 2) Loosen the four Machine Screws M5 x 22 **[1]** or the four Tapping Screws D5 x 25 (Black) **<1>** which fix the Gear Cover Ass'y **[4]** **<3>** to remove the Armature **[8]** **<7>** from the Housing Ass'y **[35]** **<34>** together with the Bearing Holder **[7]** **<6>**.
- 3) Loosen the Special Nut M7 **[5]** **<4>** which fixes the pinion to remove the pinion.
- 4) Insert the hooks of the J-204 bearing puller between the Ball Bearing 628VVC2PS2-L **[6]** **<5>** and the Bearing Holder **[7]** **<6>** from both sides and fix the hooks with the wing bolts.
- 5) Place the J-204 bearing puller on a supporting jig and push down on the tip of the armature shaft with a hand press to remove the Ball Bearing 628VVC2PS2-L **[6]** **<5>**. Then remove the Bearing Holder **[7]** **<6>**.

(2) Disassembly of the dust seal

- 1) Insert the hooks of the J-204 bearing puller between the commutator and the Dust Seal **[12]** **<11>** from both sides, and fix the hooks with the wing bolts.
- 2) Place the J-204 bearing puller on a supporting jig and push down on the armature shaft with a hand press to remove the Dust Seal **[12]** **<11>** together with the Ball Bearing 626VVC2PS2L **[13]** **<12>**. Replace the Dust Seal **[12]** **<11>** with new one because it is damaged by the removal of the Ball Bearing 626VVC2PS2L **[13]** **<12>**.

(3) Disassembly of stator (A)

- 1) Remove the Armature **[8]** **<7>** and loosen the Tapping Screw (W/Flange) D4 x 25 (Black) **[49]** **<48>** to remove Tail Cover (B) **[48]** **<47>**.
- 2) Loosen the two Machine Screws (W/Washer) M3.5 x 6 **[50]** **<49>** that secure the internal wire of the Cord **[56]** **<55>** and Stator (A) **[11]** **<10>** to the Switch (1P Screw Type) **[51]** **<50>** and loosen the two screws of the Pillar Terminal **[45]** **<44>**. Remove the two internal wires from the Cord **[56]** **<55>** and the Pillar Terminal **[45]** **<44>**.
- 3) Remove the Tapping Screw (W/Flange) D4 x 40 **[39]** **<38>** and the Tapping Screw (W/Flange) D4 x 20 (Black) **[38]** **<37>**. Remove Tail Cover (A) **[37]** **<36>** then remove the Earth Terminal **[43]** **<42>** from the Housing Ass'y **[35]** **<34>**.
- 4) Disconnect the two internal wires of Stator (A) **[11]** **<10>** coming from the Brush Holder **[42]** **<41>** from Stator (A) **[11]** **<10>**.

- 5) Remove the Fan Guide [9] <8> from the Housing Ass'y [35] <34>.
 - 6) Loosen the Tapping Screw D4 x 70 [10] or the Tapping Screw (W/Flange) D4 x 70 <9> securing Stator (A) [11] <10>. Remove Stator (A) [11] <10> from the Housing Ass'y [35] <34>.
- (4) Disassembly of the gear
- 1) Loosen the four Seal Lock Screws (W/Sp. Washer) M4 x 12 [23] <22> that secure the Packing Gland [22] <21> to the Gear Cover Ass'y [4] <3> and remove the Packing Gland [22] <21> from the Gear Cover Ass'y [4] <3>.
 - 2) Remove the Retaining Ring for D11 Shaft [15] <14> that secures the gear to the Spindle [25] <24>.
 - 3) Remove the Wave Washer [16] <15> and the gear from the Spindle [25] <24>.

8-2. Reassembly

Push the parts together in the reverse order of disassembly, with the precautions given below.

- (1) Ensure that the terminals of the stator are not bent or otherwise damaged.
 - (2) Generously lubricate the teeth of the gear and the pinion with grease. Rub grease onto the teeth with your fingers so that the grease reaches each tooth bottom. Note that the gear and the pinion may wear faster than normal if under-lubricated.
 - (3) Be sure to soak the inner diameter of the Felt Packing [21] <20> with machine oil. Otherwise, its dust-sealing function will fail to work properly, resulting in earlier damage of the Ball Bearing 6201VVCMP52L [20] <19>.
 - (4) When replacing the Armature [8] <7> and the Ball Bearing 626VVC2PS2L [13] <12> on the commutator side, press inward on the Dust Seal [12] <11> while taking care of its direction until the end face of the Dust Seal [12] <11> contacts against the end surface of the Armature [8] <7> and make sure that Dust Seal [12] <11> cannot be turned freely by hand. Keep the end face of the armature shaft approximately 0.2 mm (reference) distance inward of the end face of the Ball Bearing 626VVC2PS2L [13] <12> (see Fig. 3).
- The Dust Seal [12] <11> is an important element for improved dust protection of the Ball Bearing 626VVC2PS2L [13] <12>. Be sure to replace with a new one each time.

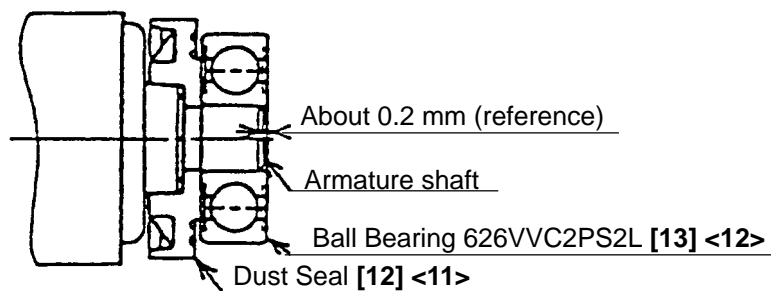


Fig. 3

- (5) When connecting the Earth Terminal [43] <42> to the internal wire (the middle wire among three) of the Noise Suppressor [47] <46>, strip the insulation sheath on the internal wire by about 6 mm and press-connect it together with the Earth Terminal [43] <42> with a clamping tool available on the market.

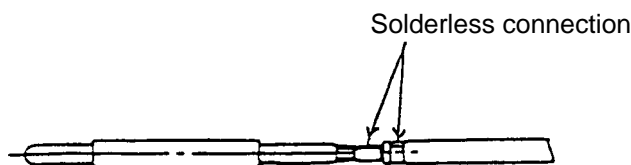


Fig. 4

(6) Mount the Cord [56] <55> according to the following procedure when replacing the standard cord (cord armor is integrally molded).

- 1) Remove the standard cord (cord armor is integrally molded) according to the procedure of 8-1 (3).
- 2) Strip the coating on the internal wire of the Cord [56] <55> about 10 mm from the tip and crimp the Terminal [52] <51> to the brown or black internal wire as shown in Fig. 5.

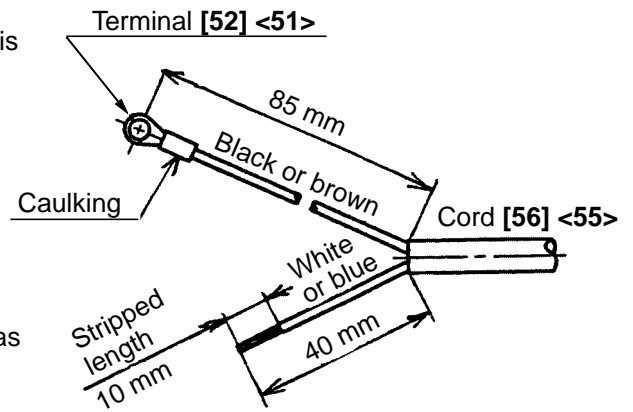


Fig. 5

- 3) Insert the Cord [56] <55> into the Cord Armor D8.8 [53] <52>.
- 4) Cut off the rib for holding the cord of Tail Cover (B) [48] <47> with nippers as shown in Fig. 6.
- 5) Mount the Cord [56] <55> and the Cord Armor D8.8 [53] <52> to Tail Cover (A) [37] <36> and secure them with the Cord Clip [54] <53> and two Tapping Screws (W/Flange) D4 x 16 [55] <54> as shown in Fig. 7.
- 6) Mount each internal wire reversing the removal procedure. Then mount Tail Cover (B) [48] <47> to Tail Cover (A) [37] <36> and secure them with the Tapping Screw (W/Flange) D4 x 25 (Black) [49] <48>.

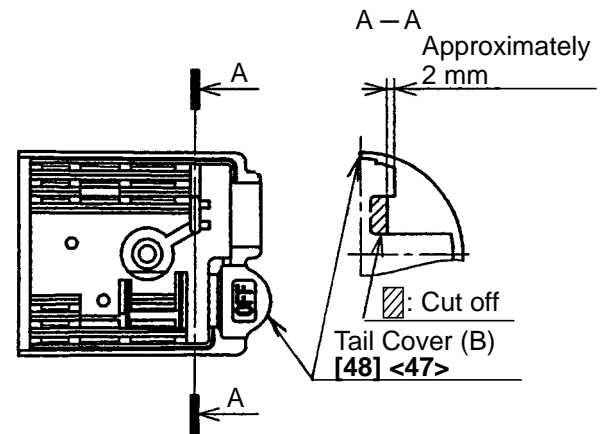


Fig. 6

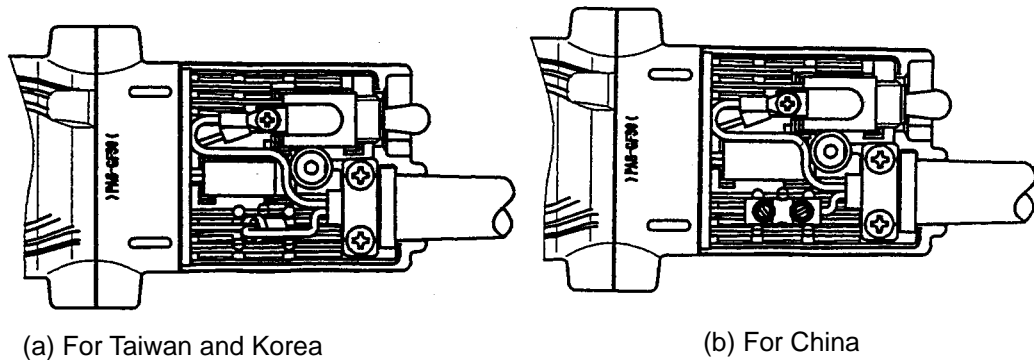


Fig. 7-1

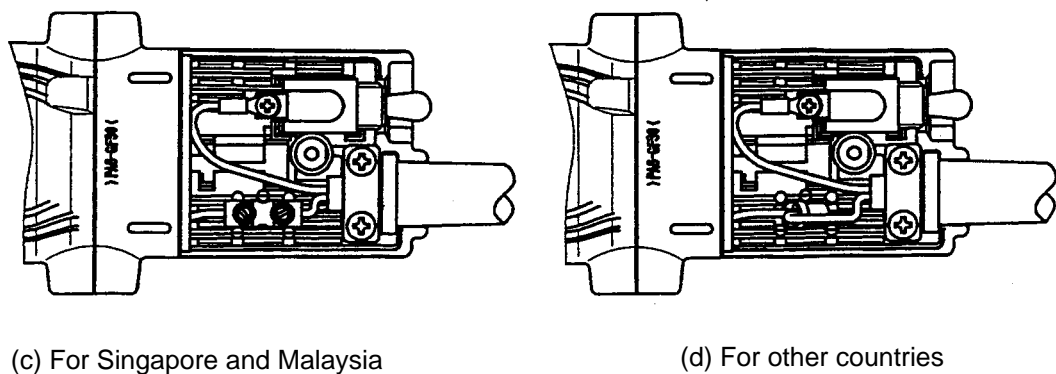


Fig. 7-2

- (7) Connect the internal wires of Stator (A) [11] <10> correctly as shown in Fig. 8 and Fig. 9.
- (8) Connect each internal wire correctly as shown in Fig. 7 being careful not to put them between the parts.

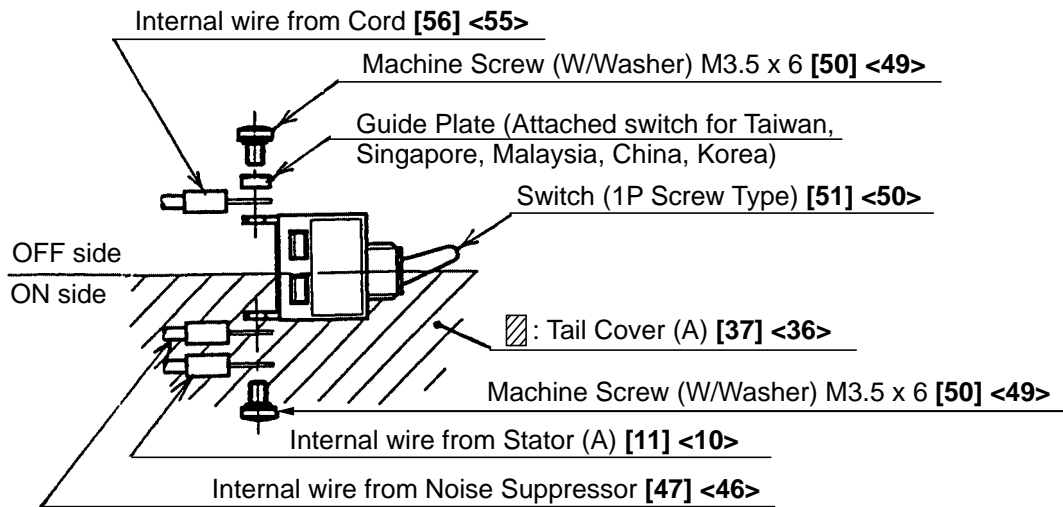


Fig. 8

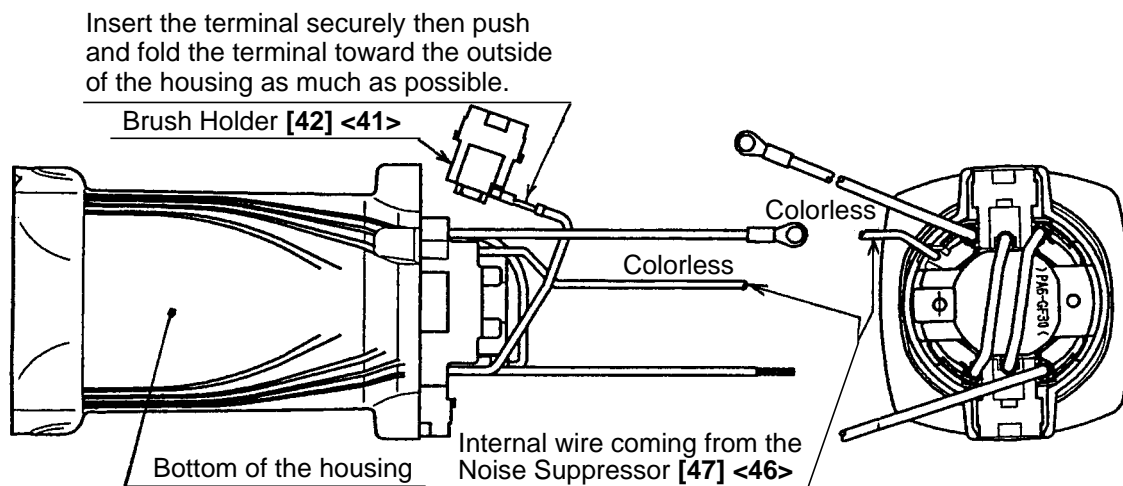


Fig. 9

- (9) When replacing the Gear Cover Ass'y [4] <3>, lubricate the needle bearing part with mixed oil.
- Mixed oil: A mixture of Hitachi Power Tool Grease No. 2 (Unilube No. 00 Code No. 939302 is recommended) and turbine oil
- Mixture ratio 1:1 (weight ratio)
 - Quantity 0.5 cc

8-3. Lubrication Points and Types of Lubricant

- Pinion chamber of Gear Cover Ass'y [4] <3> Nippeco grease (SEP-3A) 5 g
(Code No. 930035 is recommended.)
Generously rub grease onto the gear and pinion.
- Needle bearing Mixed oil 0.5 cc
Mixed oil: Mixture of Hitachi Power Tool Grease No. 2
(Unilube No. 00, Code No. 939302) and
turbine oil
Mixture ratio 1:1 (weight ratio)

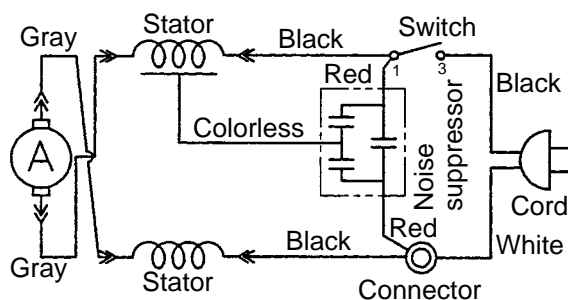
8-4. Tightening Torque

Tapping Screws D4

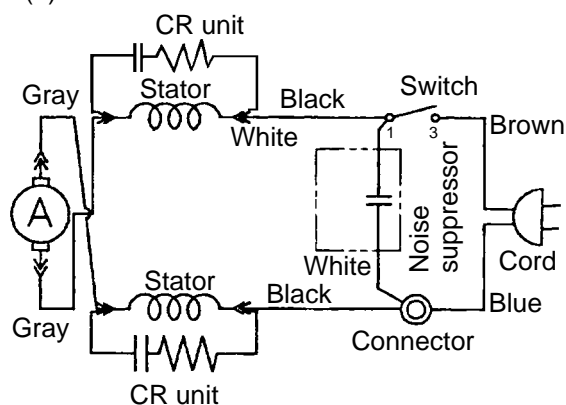
- [10] <9> [38] <37> [39] <38> [49] <48> [55] <54> $2.0 \pm 0.5 \text{ N}\cdot\text{m}$ ($20 \pm 5 \text{ kgf}\cdot\text{cm}$, $1.5 \pm 0.4 \text{ lb}\cdot\text{ft}$.)
- Seal Lock Screws (W/Sp. Washer) M4 [18] <17> [23] <22> .. $1.8 \pm 0.4 \text{ N}\cdot\text{m}$ ($18 \pm 4 \text{ kgf}\cdot\text{cm}$, $1.3 \pm 0.3 \text{ lb}\cdot\text{ft}$.)
- Machine Screw M5 [1] $3.7 \pm 0.7 \text{ N}\cdot\text{m}$ ($35 \pm 7 \text{ kgf}\cdot\text{cm}$, $2.6 \pm 0.6 \text{ lb}\cdot\text{ft}$.)
- Tapping Screw D5 <1> $2.9 \pm 0.5 \text{ N}\cdot\text{m}$ ($30 \pm 5 \text{ kgf}\cdot\text{cm}$, $2.2 \pm 0.4 \text{ lb}\cdot\text{ft}$.)
- Machine Screw (W/Sp. Washer) M5 [27] <26> $1.6 \pm 0.4 \text{ N}\cdot\text{m}$ ($16 \pm 4 \text{ kgf}\cdot\text{cm}$, $1.2 \pm 0.3 \text{ lb}\cdot\text{ft}$.)
- Special Nut M7 [5] <4> $6.4 \pm 1.0 \text{ N}\cdot\text{m}$ ($65 \pm 10 \text{ kgf}\cdot\text{cm}$, $4.7 \pm 0.7 \text{ lb}\cdot\text{ft}$.)
- Brush Cap [40] <39> $0.6 \pm 0.2 \text{ N}\cdot\text{m}$ ($6 \pm 2 \text{ kgf}\cdot\text{cm}$, $0.4 \pm 0.1 \text{ lb}\cdot\text{ft}$.)

8-5. Wiring Diagram

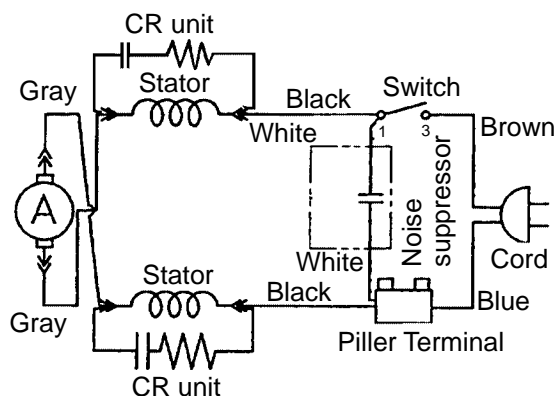
(1) For Taiwan



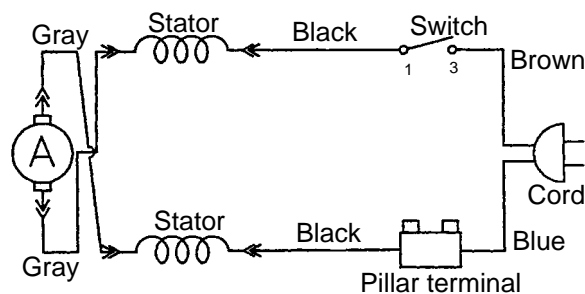
(2) For Korea



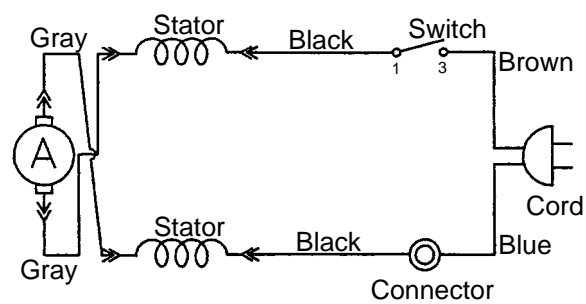
(3) For China



(4) For Singapore and Malaysia



(5) For other countries



8-6. Insulation Tests

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

Insulation resistance: 7 MΩ or more with 500 V DC megohm tester

Dielectric strength test: AC 4,000 V/1 minute with no abnormalities 220 V — 240 V products

AC 2,500 V/1 minute with no abnormalities 110 V — 127 V products

8-7. No-load Current Value

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

Voltage (V)	110	220	230	240
Current (A) max.	3.0	1.6	1.8	1.7

9. STANDARD REPAIR TIME (UNIT) SCHEDULES

MODEL	Variable		10	20	30	40	50	60 min.
	Fixed							
<div>PDA-100K</div> <div>G 10SK3</div>		Work Flow						
		Switch	→					
		Tail Cover (A)						
		Tail Cover (B)						
		Cord						
		Cord Armor						
	General Assembly							

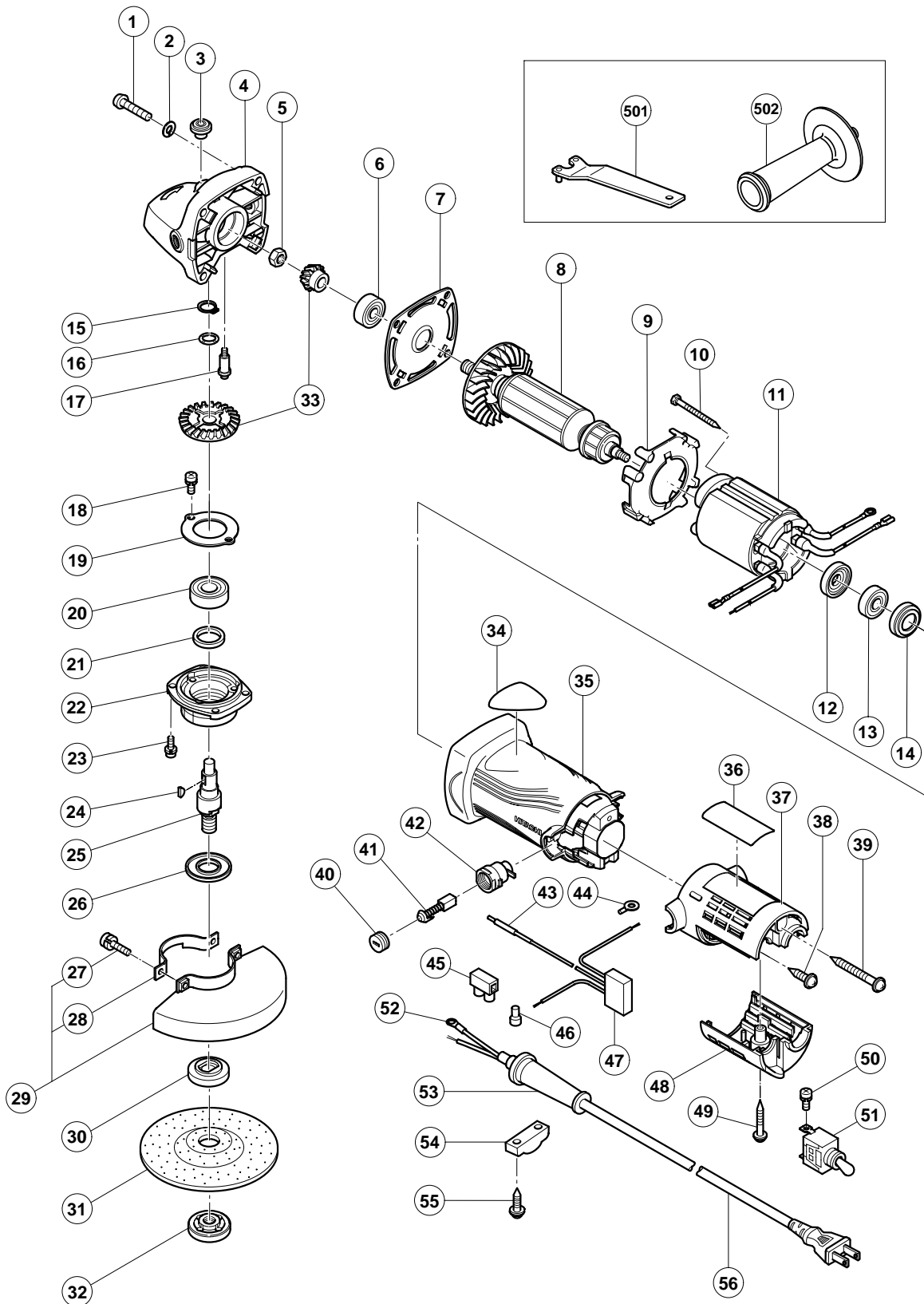
ELECTRIC TOOL PARTS LIST

DISC GRINDER

2003 • 12 • 15

Model PDA-100K

(E1)



PARTS

PDA-100K

ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
1	949-242	MACHINE SCREW M5X22 (10 PCS.)	4		
2	949-454	SPRING WASHER M5 (10 PCS.)	4		
3	301-944	PUSHING BUTTON	1		
4	316-484	GEAR COVER ASS'Y	1	INCLUD. 3, 17	
5	301-941	SPECIAL NUT M7	1		
6	628-VVC	BALL BEARING 628VVC2PS2-L	1		
7	316-480	BEARING HOLDER	1		
* 8	360-567C	ARMATURE 110V	1		
* 8	360-567E	ARMATURE 220V-240V	1		
9	319-898	FAN GUIDE	1		
10	320-677	TAPPING SCREW D4X70	2		
* 11	340-514C	STATOR (A) 110V	1		
* 11	340-514E	STATOR (A) 220V-230V	1		
* 11	340-514G	STATOR (A) 220V-230V	1	FOR CHN, KOR	
* 11	340-514F	STATOR (A) 240V	1		
12	313-775	DUST SEAL	1		
13	626-VVM	BALL BEARING 626VVC2PS2L	1		
14	309-929	RUBBER BUSHING	1		
15	316-487	RETAINING RING FOR D11 SHAFT	1		
16	316-486	WAVE WASHER	1		
17	301-943	LOCK PIN	1		
18	997-263	SEAL LOCK SCREW (W/SP. WASHER) M4X10	2		
19	316-490	BEARING COVER	1		
20	620-1VV	BALL BEARING 6201VVCMP2L	1		
21	301-946	FELT PACKING	1		
22	316-489	PACKING GLAND	1		
23	307-127	SEAL LOCK SCREW (W/SP. WASHER) M4X12	4		
24	302-047	WOODRUFF KEY	1		
25	316-485	SPINDLE	1		
26	301-945	FRINGER	1		
27	308-386	MACHINE SCREW (W/SP. WASHER) M5X16 (BLACK)	2		
28	301-949	SET PLATE	1		
29	301-948	WHEEL GUARD ASS'Y	1	INCLUD. 27, 28	
* 30	320-497	WHEEL WASHER	1		
* 30	320-496	WHEEL WASHER	1	FOR KOR	
* 31	316-820	D. C. WHEELS 100MMX4T A36Q (25 PCS.)	1		
* 31	939-640	D. C. WHEELS 100MMX4T A36Q (20 PCS.)	1	FOR KOR	
* 32	321-795	WHEEL NUT (C)	1		
* 32	938-062	WHEEL NUT (B)	1	FOR KOR	
33	321-450	GEAR AND PINION SET	1		
34		HITACHI LABEL	1		
35	320-675	HOUSING ASS'Y	1	INCLUD. 14	
36		NAME PLATE	1		
37	322-533	TAIL COVER (A)	1		
38	302-086	TAPPING SCREW (W/FLANGE) D4X20 (BLACK)	1		
39	306-664	TAPPING SCREW (W/FLANGE) D4X40	1		
40	936-551	BRUSH CAP	2		
41	999-021	CARBON BRUSH (1 PAIR)	2		
42	313-777	BRUSH HOLDER	2		
* 43	314-854	EARTH TERMINAL	1	FOR TPE	
* 44	980-063	TERMINAL	1	FOR NOISE SUPPRESSOR	

PARTS

PDA-100K

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PDA-100K

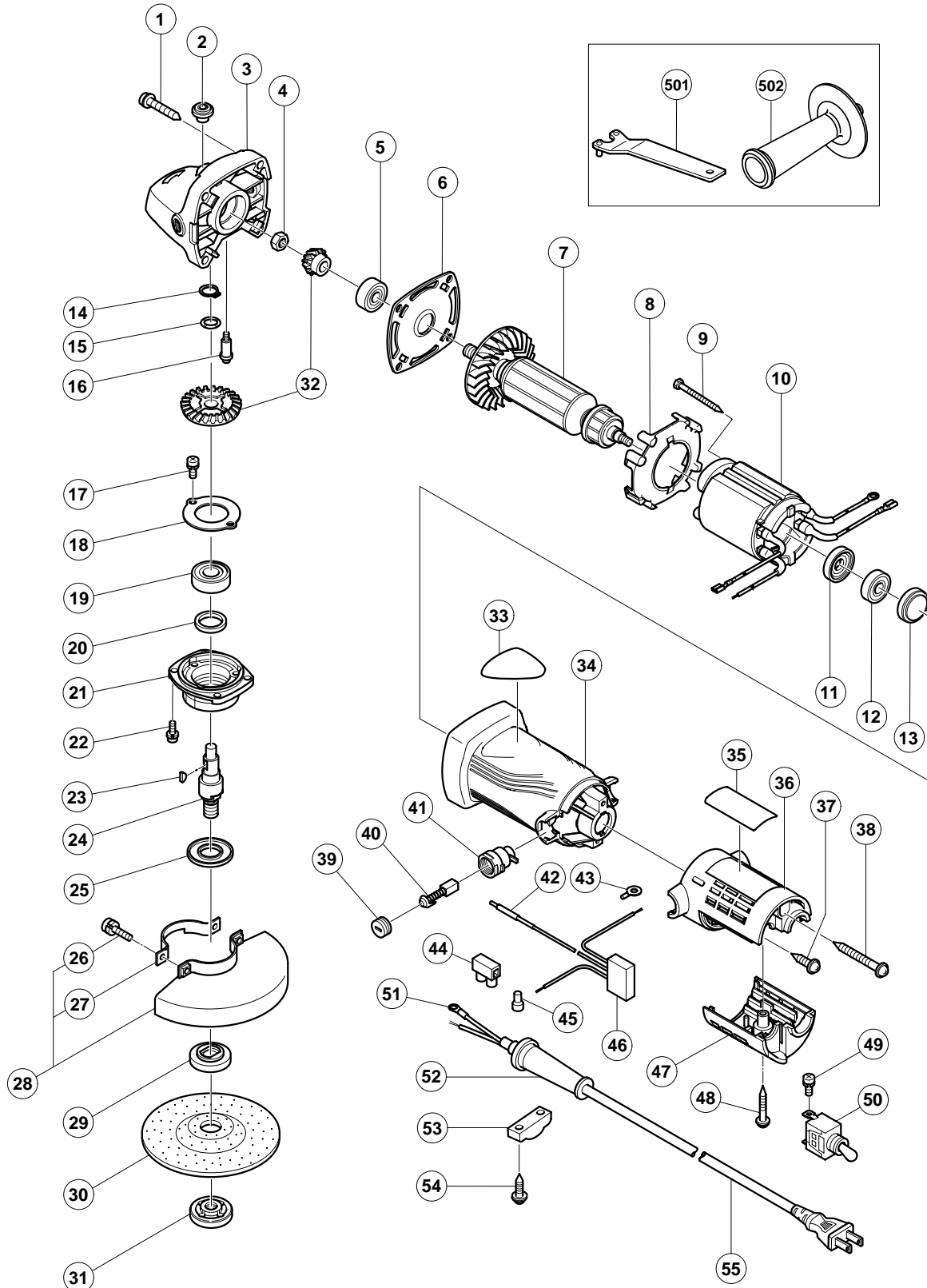
OPTIONAL ACCESSORIES

- 4 -

ELECTRIC TOOL PARTS LIST

DISC GRINDER
Model G 10SK3

2003 • 12 • 15
(E1)



PARTS

G 10SK3

ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
1	320-523	TAPPING SCREW D5X25 (BLACK)	4		
2	301-944	PUSHING BUTTON	1		
3	316-484	GEAR COVER ASS'Y	1	INCLUD. 2, 16	
4	301-941	SPECIAL NUT M7	1		
5	628-VVC	BALL BEARING 628VVC2PS2-L	1		
6	316-480	BEARING HOLDER	1		
* 7	360-567C	ARMATURE 110V	1		
* 7	360-567E	ARMATURE 220V-240V	1		
8	319-898	FAN GUIDE	1		
9	319-358	TAPPING SCREW (W/FLANGE) D4X70	2		
* 10	340-514C	STATOR (A) 110V	1		
* 10	340-514E	STATOR (A) 220V-230V	1		
* 10	340-514G	STATOR (A) 220V-230V	1	FOR KOR	
11	313-775	DUST SEAL	1		
12	626-VVM	BALL BEARING 626VVC2PS2L	1		
13	319-093	RUBBER BUSHING	1		
14	316-487	RETAINING RING FOR D11 SHAFT	1		
15	316-486	WAVE WASHER	1		
16	301-943	LOCK PIN	1		
17	997-263	SEAL LOCK SCREW (W/SP. WASHER) M4X10	2		
18	316-490	BEARING COVER	1		
19	620-1VV	BALL BEARING 6201VVCMP2L	1		
20	301-946	FELT PACKING	1		
21	316-489	PACKING GLAND	1		
22	307-127	SEAL LOCK SCREW (W/SP. WASHER) M4X12	4		
23	302-047	WOODRUFF KEY	1		
24	316-485	SPINDLE	1		
25	301-945	FRINGER	1		
26	308-386	MACHINE SCREW (W/SP. WASHER) M5X16 (BLACK)	2		
27	301-949	SET PLATE	1		
28	301-948	WHEEL GUARD ASS'Y	1	INCLUD. 26, 27	
* 29	320-497	WHEEL WASHER	1		
* 29	320-496	WHEEL WASHER	1	FOR KOR	
* 30	316-820	D. C. WHEELS 100MMX4T A36Q (25 PCS.)	1		
* 30	939-640	D. C. WHEELS 100MMX4T A36Q (20 PCS.)	1	FOR KOR	
* 31	321-795	WHEEL NUT (C)	1		
* 31	938-062	WHEEL NUT (B)	1	FOR KOR	
32	321-450	GEAR AND PINION SET	1		
33		HITACHI LABEL	1		
34	320-666	HOUSING ASS'Y	1	INCLUD. 13	
35		NAME PLATE	1		
36	320-668	TAIL COVER (A)	1		
37	302-086	TAPPING SCREW (W/FLANGE) D4X20 (BLACK)	1		
38	306-664	TAPPING SCREW (W/FLANGE) D4X40	1		
39	936-551	BRUSH CAP	2		
40	999-021	CARBON BRUSH (1 PAIR)	2		
41	313-777	BRUSH HOLDER	2		
* 42	314-854	EARTH TERMINAL	1	FOR TPE	
* 43	980-063	TERMINAL	1	FOR NOISE SUPPRESSOR	
* 44	938-307	PILLAR TERMINAL	1	FOR SIN, MAL	
* 45	959-140	CONNECTOR 50091 (10 PCS.)	1	EXCEPT FOR SIN, MAL	

PARTS

G 10SK3

[illegible]

G 10SK3

[illegible]

OPTIONAL ACCESSORIES

[illegible]

