# ECHNICAL INFORMATION

Model No. ► RP2300FC, RP2301FC

**Description Note** 

# **C**ONCEPT AND MAIN APPLICATIONS

Models RP2300FC and RP2301FC are upgraded sister tools of our current plunge-type electronic router Model 3612C. Their main benefits are: • Linear ball bearing for super-smooth plunge action

Ergonomically contoured knob style handles
Powerful cutting with the continuous rating input higher than Model 3612C; RP2300FC: 2,300W, RP2301FC: 2,100W

RP2301FC additionally feature electric brake.

These products are available in the following variations.

|--|

Dimensions: mm (")		
Length (L)	155 (6-1/8)	
Width (W1)	294 (11-5/8)	
Height (H)	312 (12-1/4)	
Width of base (W2)	170 (6-11/16)	

Model No.	Electric brake	Twin LED job lights	Straight guide
<b>RP2300FC</b>	No		Standard type
<b>RP2301FC</b>	Yes	Yes	(Straight guide + Guide holder assembly)
RP2300FCX	No		High-precision type with fine adjustment function
RP2301FCX	Yes		(Fine adjusting straight guide)

### Specification

#### **RP2300FC**

Valtaga (V)	Cumont (A)	Cycele (Uz)	Continuous Rating (W)		More Output (W)
voltage (v)	Current (A)	Cycle (HZ)	Input	Output	Wax. Output (W)
110	15	50/60	1,650	650	2,600
120	15	50/60		650	2,600
220	11	50/60	2,300	1,200	3,400
230	11	50/60	2,300	1,200	3,400
240	11	50/60	2,300	1,200	3,400

#### **RP2301FC**

Voltago (V)	Comment (A)	Cycele (IIz)	Continuous Rating (W)		More Output (W)
voltage (v)	Current (A)	Cycle (HZ)	Input	Output	Max. Output (W)
110	15	50/60	1,650	650	2,600
120	15	50/60		650	2,600
220	10	50/60	2,100	1,000	3,400
230	10	50/60	2,100	1,000	3,400
240	10	50/60	2,100	1.000	3.400

Model	No.	RP2300FC	<b>RP2301FC</b>	
No loa	ad speed: min-1=rpm	9,000 -	22,000	
Collet	capacity: mm (")	12.0 or 12.7 (1/2)		
Plunge	e capacity: mm (")	0 - 70 (0	- 2-3/4)	
nic ol	Constant speed control	Y	es	
ontro	Soft start	Yes		
Ele c(	Variable speed control by dial	Y	es	
Electric brake		No	Yes	
LED job light		Yes*1		
Double insulation		Yes		
Power supply cord: m (ft)		Europe: 4.0 (13.1), Brazil: 2.0 (6.6), Other countries: 2.5 (8.2)		
Net weight*2: kg (lbs)		6.1 (13.4)		

\*1: Twin LED job lights with afterglow function

\*2 Weight according to EPTA-Procedure 01/2003, including Dust nozzle

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# ► Standard equipment

#### For all countries:

Straight guide (Standard type or High-precision type) 1 pc	Collet cone 12mm or 1/2" 1 pc
+ Pan head screw M6x135 (for adjusting cutting depth) 1 pc	Wrench 24 1 pc

#### The standard equipment for the tool shown below may vary by country:

Dust nozzle assembly 1 pc	Collet sleeve 6mm 1 pc	Collet sleeve (for inch chuck) 10mm 1 pc
Knob 55 complete 1 pc	Collet sleeve 8mm 1 pc	
Trimmer guide assembly 1 pc	Collet sleeve 1/4" 1 pc	
Templet guide 16 1 pc	Collet sleeve 3/8" 1 pc	

# ► Optional accessories

Fine adjusting straight guide Guide rail adapter set Trimmer guide assembly Templet guides Templet guide 25 Templet guide adapter 30 Nut M30 Dust nozzle assembly Collet sleeves Router bits

# CAUTION: Remove the bit from the machine for safety before repair/ maintenance in accordance with the instruction manual!

#### [1] NECESSARY REPAIRING TOOLS

Code No.	Description	Use for
1R030	Bearing setting pipe 25-17.2	Supporting Pin 6 when assembling shaft lock mechanism
1R041	Vise plate	Protecting Armature when holding in vise
1R268	Spring pin extractor 3	Removing Pin 6 of shaft lock mechanism
1R269	Bearing extractor	Removing Ball bearing 629DDW

#### [2] LUBRICATIONS

Apply lubricant "VG100" to the following portions designated with the gray triangle to protect parts and product from unusual abrasion.

Item No.	Description	Portion to lubricate
(24)	Armature	Threaded portion for removing Collet nut smoothly
85	Base complete	Pipe 20 for making plunging action smooth
Fig. 1	or housing	24 Motor bracket complete Collet nut

#### [3] DISASSEMBLY/ASSEMBLY [3]-1. Base complete

#### DISASSEMBLING

(1) Separate Base section from Motor section as illustrated in Figs. 2 and 3.



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# [3] DISASSEMBLY/ASSEMBLY[3]-1. Base complete (cont.)

#### DISASSEMBLING

#### Fig. 3



(2) Remove Base plate, Lock plate, Compression spring 4 and other component parts. Refer to **Figs. 4 and 5**.







# Repair [3] DISASSEMBLY/ASSEMBLY [3]-1. Base complete

ASSEMBLING

Take the disassembling step in reverse.

- Note: Set Compression spring 4 (2pcs.) in the groove on Base complete as illustrated in Fig. 6
  - M6 Flat head screw is thread-locker type. When removing it, be sure to apply adhesive (ThreeBond 1321/1342 or Loctite 242) to the thread before reusing.
  - Assemble Compression spring 11, Compression spring 13, Pole and Silent pole as illustrated in Fig. 3.
  - Check that two Compression springs 4 work properly by pulling the lever portion of Lock plate after assembling Base plate to Base. Refer to **Figs. 6 and 4**.

Fig. 6



#### [3]-2. Armature, Motor bracket complete

#### DISASSEMBLING

(1) Separate Base section from Motor section as illustrated in Figs. 2 and 3.

(2) Disassemble Armature as illustrated in Figs. 7, 8, 9, 10, 11, 12 and 13.







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### ► Repair

# [3] DISASSEMBLY/ASSEMBLY[3]-2. Armature, Motor bracket complete (cont.)

DISASSEMBLING

#### Fig. 9



#### Fig. 10







# [3] DISASSEMBLY/ASSEMBLY[3]-2. Armature, Motor bracket complete (cont.)

#### DISASSEMBLING

(3) Armature can be removed in the manner A or B shown in **Fig. 13**. Remove Ball bearing 629DDW from Armature. **Fig. 13** 



(4) Disassemble the Motor bracket as illustrated in Figs. 14 and 15.







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#### [3] DISASSEMBLY/ASSEMBLY

#### [3]-2. Armature, Motor bracket complete

#### ASSEMBLING

- (1) Assemble Ball bearing 6205DDW to Motor bracket. Refer to the right illustration in Fig. 14.
- (2) In case of RP1800F, RP1801F, RP2300FC and RP2301FC, secure LED circuit with 4x12 Tapping screw (2pcs.). Refer to **the center illustration in Fig. 14**.
- (3) Tighten Bearing retainer 60 with M4x14 Countersunk head screw (3pcs.) to secure Ball bearing 6205DDW. Refer to **the left illustration in Fig. 14**.
- **Note:** Apply adhesive ThreeBond 1321 / 1342 or Loctite 242 to the threaded portion of M4x14 Countersunk head screw (3pcs.)
- (4) Assemble Lock lever to Motor bracket as illustrated in Figs. 16, 17 and 18.











#### [3] DISASSEMBLY/ASSEMBLY

#### [3]-2. Armature, Motor bracket complete (cont.)

#### ASSEMBLING

- (5) Assemble Grip L to Motor bracket on Lock lever side and secure it with M6x25 Pan head screw. Refer to Fig. 15. Assemble Grip cover L to Grip L by screwing two 4x12 Tapping screws. Refer to Fig. 15.
- (6) Assemble Armature to Motor bracket. Refer to Fig. 13
- (7) Assemble Retainer to Armature shaft by turning with Wrench 41 or Hex socket 41-80 clockwise. Refer to Fig. 12.
- (8) Assemble Motor bracket to Motor housing. Refer to Fig. 11.
- (8) In case of Models RP1800F, RP1801F, RP2300F, RP2301FC, connect LED circuit. Refer to Fig. 10.
- (9) Assemble Grip R section to Motor bracket. Refer to Fig. 9.
- (10) Secure Grip cover (R) with two 4x18 Tapping screws to the Grip R. Refer to **right** illustration in **Fig. 8**. And assemble Cover to Motor housing. Refer to **left** illustration in **Fig. 8**.
- (11) Mount Retainer cover to Motor bracket. Refer to **right** illustration in **Fig. 7**. And assemble Carbon brushes and Collet nut. Refer to **left** illustration in **Fig. 7**.

#### [3]-3. Shaft Lock

#### DISASSEMBLING

(1) Separate Base section from Motor section as illustrated in Figs. 2, 3.

- (2) Remove Retainer cover by unscrewing two M4x18 Pan head screws as the **right** illustration in **Fig. 7**.
- (3) Shaft lock mechanism can be disassembled as illustrated in Fig. 19.

#### Fig. 19



#### ASSEMBLING

Shaft lock section can be assembled as illustrated in Fig. 20.



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# Circuit diagram





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# Circuit diagram Fig. D-1B











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# Circuit diagram

#### Fig. D-1C



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# Circuit diagram

#### Fig. D-1D











# Circuit diagram

#### Fig. D-1E



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# Circuit diagram

#### Fig. D-1F











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