# ECHNICAL INFORMATION



Model No. ► 3709, 3710

Description ► Trimmer

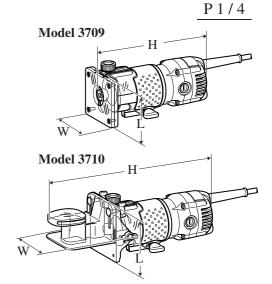
## CONCEPT AND MAIN APPLICATIONS

Models 3709 and 3710 have been developed as price-competitive successors to the current Model 3703 (with normal base) and 3704 (with tilt base).

Their main features are;

- \*Transparent plastic base for clear view to trimming edge
- \*Rubberized soft grip for operator's comfort and control

3710 additionally features 0-45 degree tilt base.



Dimensions: mm (")		
Model No.	3709	3710
Length (L)	82 (3-1/4)	102 (4)
Width (W)	90 (3-1/2)	122 (4-13/16)
Height (H)	199 (7-7/8)	302 (11-7/8)

## ► Specification

Voltage (V) Current (A)	Cumont (A)	Cycle (Hz)	Continuous Rating (W)		May Output (W)
	Cycle (Hz)	Input	Output	Max. Output (W)	
110	5.1	50/ 60	530	300	570
120	4.0	50/ 60		170	570
220	2.5	50/ 60	530	300	570
230	2.4	50/ 60	530	300	570
240	2.3	50/ 60	530	300	570

Model No.	3709	3710
Continuous rating input: W	530	
No load speed: min-1=rpm	30,000	
Collet size: mm (")	6 or 6.35(1/4)	
Depth adjustment mechanism	Rack and pinion	
Tilt base	No	Yes
Double insulation	Yes	
Power supply cord: m (ft)	Australia, New Zealand: 2.0(6.6), Other countries: 2.5(8.2)	
Net weight: Kg (lbs)	1.5 (3.3)	1.6 (3.5)

## ► Standard equipment

Trimmer guide assembly 1 pc	Straight bit (6mm or 1/4 inch) 1 pc	Wrench 171 pc
Straight guide assembly 1 pc	Collet cone (6mm or 1/4 inch) 1 pc	Chip deflector (3709 only)1 pc
Templet guide 10 1 pc	Wrench 10 1 pc	

Note: The standard equipment for the tool shown above may differ by country.

### ► Optional accessories

Assorted bits Trimmer shoe Trimmer base assembly Collet cone

#### Repair

CAUTION: Be sure to unplug the tool and remove the bit before maintenance or repair. See the instruction manual on how to handle the tool.

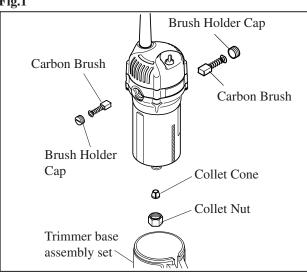
#### [1] NECESSARY REPAIRING TOOLS

Part No.	Descriptions	Purpose
1R269	Bearing Extractor	For removing Ball bearings on Armature shaft
1R280	Round Bar for Arbor 6-50	For use it together with 1R269

#### [2] Disassembling Armature

- 1. Remove Brush holder caps, Carbon brushes, Collet cone, Collet nut and Trimmer base ass'y set as shown in Fig.1.
- 2. Remove four 4x35 Tapping screws. Next, separate the assembled part of Motor housing complete and Armature ass'y from the others. Refer to Fig.2.
- 3. Pull out Armature ass'y from Motor housing complete by hand as illustrated in Fig.3.
- 4. Remove Ball bearing 6002LLH on the drive end of Armature ass'y and Ball bearing 607LLB on the commutator end in according to the following manner.
  - A) Pull off Rubber ring 19 on Ball bearing 607LLB by hand.
  - B) Insert two jaws of 1R269 between Ball bearing 607LLB and Resin washer to remove Ball bearing 607LLB as described in Fig.4.
  - C) As illustrated in Fig.5, use 1R280 with 1R269 to remove Ball bearing 6002LLH.

Fig.1





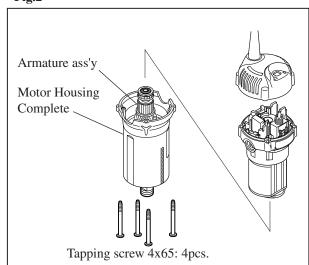


Fig.3

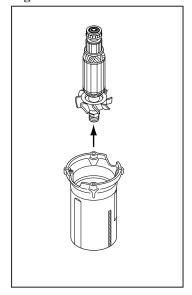


Fig.4

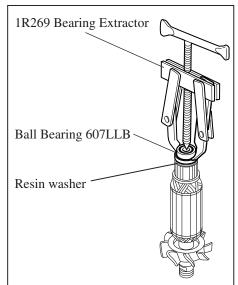
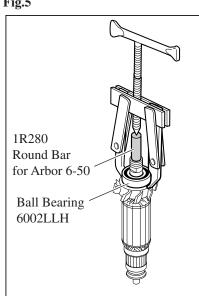


Fig.5



## ► Repair

#### [3] Assembling Armature

Be sure to put wave washer 23 into place in Motor housing complete as **Fig.7 and Fig.8** before fixing Armature ass'y to Motor housing complete.

Fig.7.

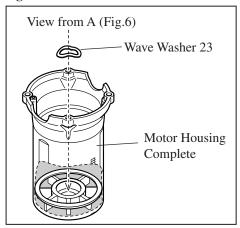
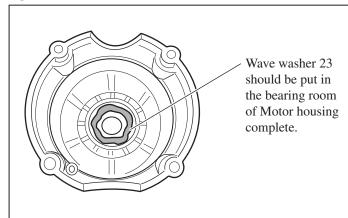


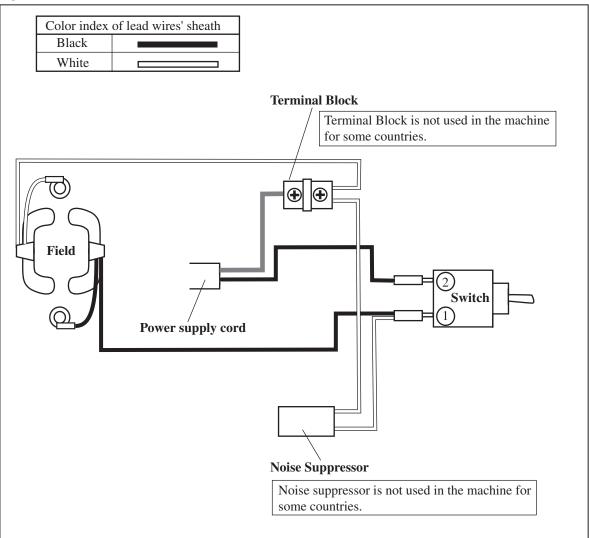
Fig.8.



## ► Circuit diagram

Refer to Fig.9.

Fig..9

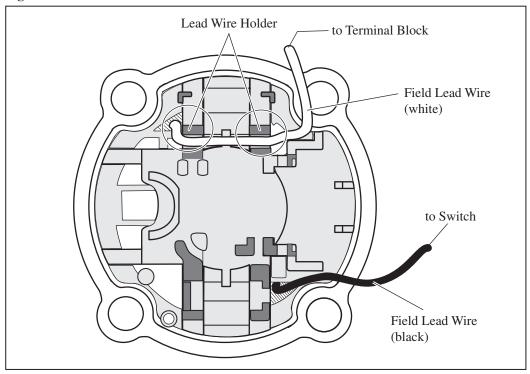


## ► Wiring diagram

#### **Wiring of Field Lead Wires (Before Mounting Electrical Parts)**

Put field lead wire (white) into lead wire holder as Fig.10.

Fig.10.



#### Wiring of Field Lead Wires (After Mounting Electrical Parts)

- 1. Put one of lead wire of Power supply cord into lead wire holder.
- 2. Put one of lead wire (white) of Noise suppressor into lead wire holder. See **Fig.11**.

Fig.11.

