ECHNICAL INFORMATION



Models No. ► BCL140, BCL180

Description ► Cordless Cleaner

CONCEPT AND MAIN APPLICATIONS

Models BCL140 and BCL180 are handy cordless cleaners of cloth filtration type powered by Makita Li-ion battery;

BCL140 by 14.4V/3.0Ah battery BL1430 or 14.4V/1.3Ah BL1415, BCL180 by 18V/3.0Ah battery BL1830 or 18V/1.3Ah battery BL1815.

With the main benefits described below, optimum for cleaning operations of contractors already having the Makita 14.4V or 18V:

- Strong suction power and Large dust capacity for heavy-duty applications
- Low noise design ideal for quiet cleaning operation in job sites among residential areas
- Rubberized soft grip for reduced hand fatigue even in long continuous use

These products are available in the following variations.

BCL140

Delli				
M. LINI.	Battery		Cl	Housing
Model No.	type	quantity	Charger	color
BCL140Z	No		No	Makita-blue

BCL180

M. 1.1N.	Battery		Classic	Housing
Model No.	type	quantity	Charger	color
BCL180Z	No		No	Makita-blue
BCL180ZW				White

The models also includes the accessories listed below in "Standard equipment".

L2 (The image is BCL140.)

Dimensions: mm (")			
	BCL140	BCL180	
Length (L1)	458 (18)	476 (18-3/4)	
Length (L2)	981 (38-5/8)	999 (39-1/4)	
Width (W)	114 (4-1/2)		
Height (H)	152 (6)		

L1: without T-nozzle and Extension pipe L2: with T-nozzle and Extension pipe

Specification

Specificat	ion Model	BCL140	BCL180
	Cell	Li-	ion
Battery	Voltage: V	14.4	18
	Capacity: Ah	3.0/ 1.3	
Max. air f	low: m3/minute	1.2	1.3
Max. sealed suction: kPa [Column of water]		3.2 [320mmH2O]	3.6 [360mmH2O]
Suction po	ower: W	25	30
Continuous use (approx.): minute		20	
Dust capacity: mL		650	
Net weight*1: kg (lbs)		1.2 (2.6)*2	1.2 (2.7)*3

^{*1} Weight according to EPTA-Procedure 01/2003

Standard equipment

Nozzle assembly (T-nozzle) 1	Sash nozzle 1	Filter (factory-mounted) 1
Pipe (Extension pipe) 1	Sash nozzle holder 1	Pre-filter (factory-mounted) 1

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

Optional accessories

Battery BL1430 (BCL140 only) Nozzle assembly (for rug/carpet) Battery BL1415 (BCL140 only) Shelf brush Battery BL1830 (BCL180 only) Flexible hose Battery BL1815 (BCL180 only) Round brush Fast charger DC18RA Filter Charger DC18SD Pre-filter

Charger DC24SA (for North America only)

Charger DC24SC (for all countries except North America)

^{*2} with Battery BL1415, without T-nozzle and Extension pipe

^{*3} with Battery BL1815, without T-nozzle and Extension pipe

► Repair

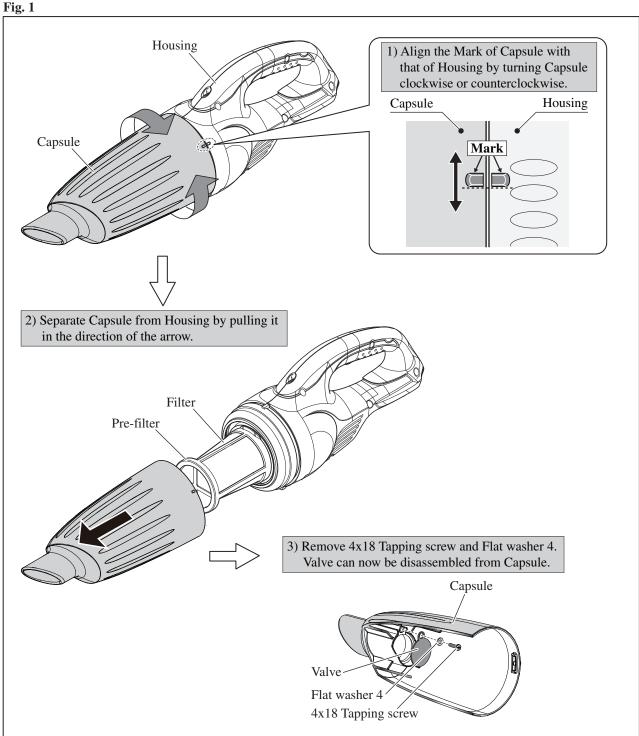
CAUTION: Remove the battery cartridge from the machine for safety before repair/ maintenance in accordance with the instruction manual!

[3] DISASSEMBLY/ASSEMBLY

[3]-1. Capsule Section

DISASSEMBLING

Capsule section can be disassembled as illustrated in Fig. 1.



ASSEMBLING

Do the reverse of the disassembly steps. (Fig. 1)

► Repair

[3] DISASSEMBLY/ASSEMBLY

[3] -2. Motor Section

DISASSEMBLING

- 1) Disassemble Capsule section as illustrated in Fig. 1.
- 2) Motor section can be disassembled as illustrated in Figs. 2, 3...

Fig. 2

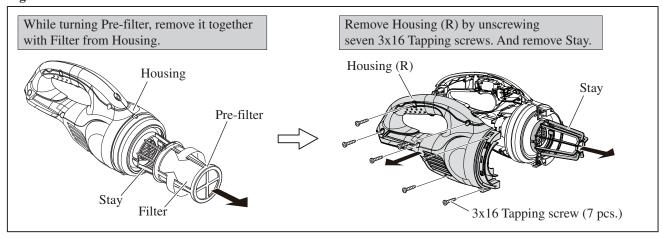
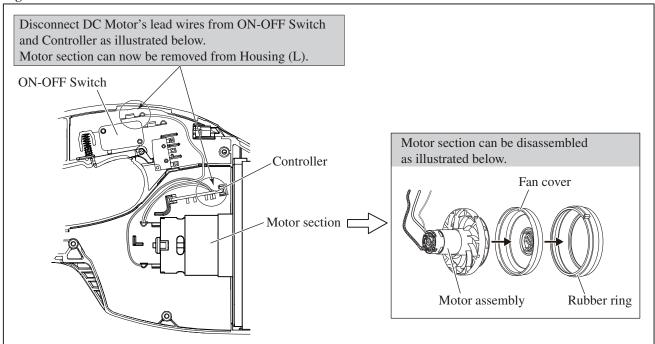


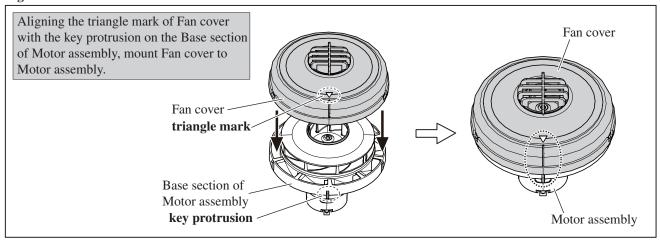
Fig. 3



ASSEMBLING

1) Assemble Fan cover to Motor assembly. (Fig. 4)

Fig. 4



- Repair

[3] DISASSEMBLY/ASSEMBLY

[3] -2. Motor Section

ASSEMBLING

- 2) Assemble Rubber ring to Motor assembly. (Fig. 5)
- 3) Assemble Switch lever to Housing (L). (Fig. 6)
- 4) Mount Motor section to Housing set (L). (Fig. 7)

Fig. 5

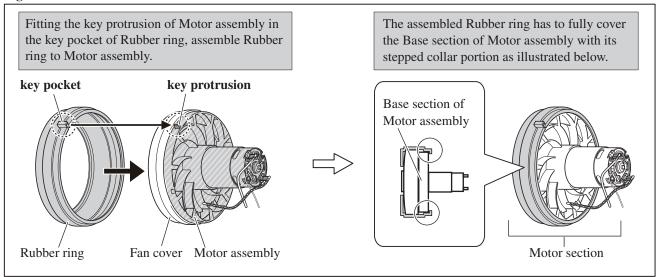


Fig. 6

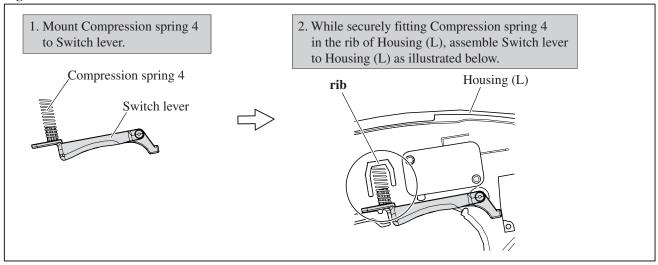
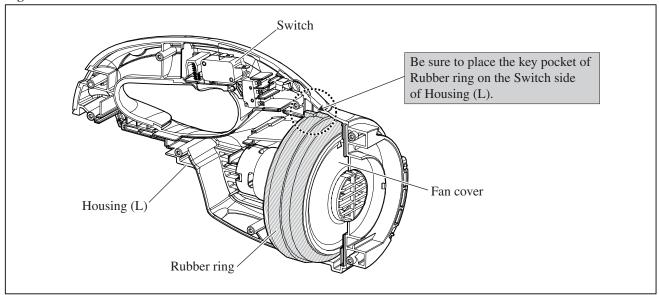


Fig. 7



► Repair

[3] DISASSEMBLY/ASSEMBLY

[3] -2. Motor Section

ASSEMBLING

- 5) Fix Lead wires with Lead wire holder of Housing (L) after connecting them as illustrated in Fig. 8.
- 6) Adhere Sponge sheet 15-25 to Lead wire holder in order to prevent Lead wires from coming loose. (Fig. 9)

Fig. 8

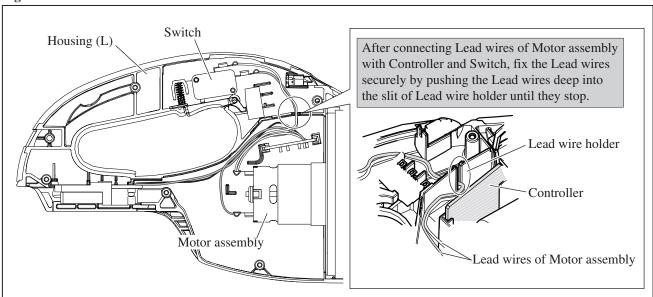
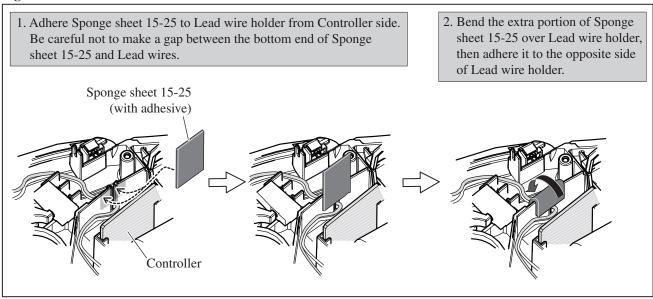


Fig. 9



- Repair

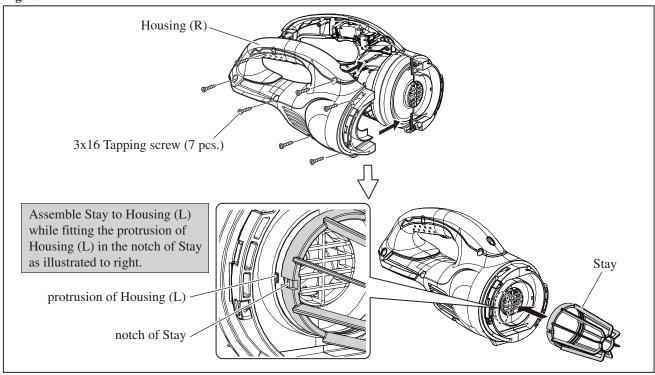
[3] DISASSEMBLY/ASSEMBLY

[3] -2. Motor Section

ASSEMBLING

7) Assemble Housing (R) to Housing (L) and mount Stay as illustrated in Fig. 10.

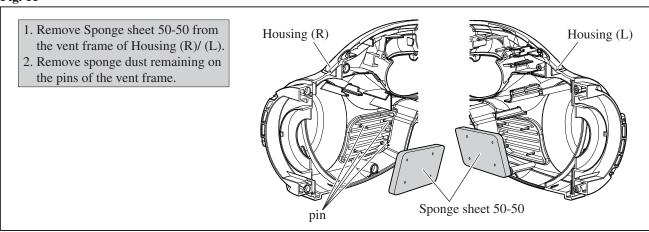
Fig. 10



[3] -3. Sponge Sheet 50-50

DISASSEMBLING

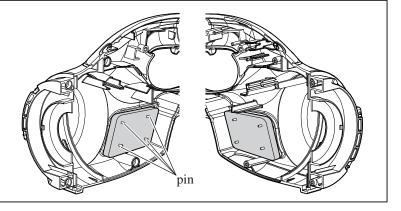
Fig. 11



ASSEMBLING

Fig. 12

- 1. Fitting the four pins of the vent frame in the corresponding through holes of new Sponge sheet 50-50, press Sponge sheet 50-50 towards Housing (R)/ (L) until it touches the vent frame.
- 2. Fix Sponge sheet 50-50 to the vent frame by applying a little amount of adhesive around each pin.

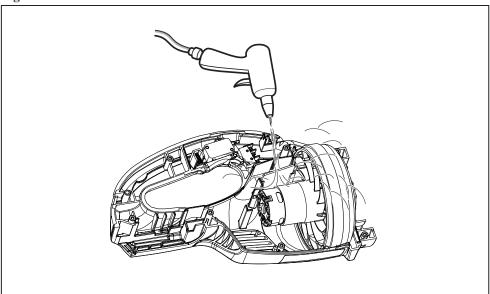


- Repair

[4] MAINTENANCE

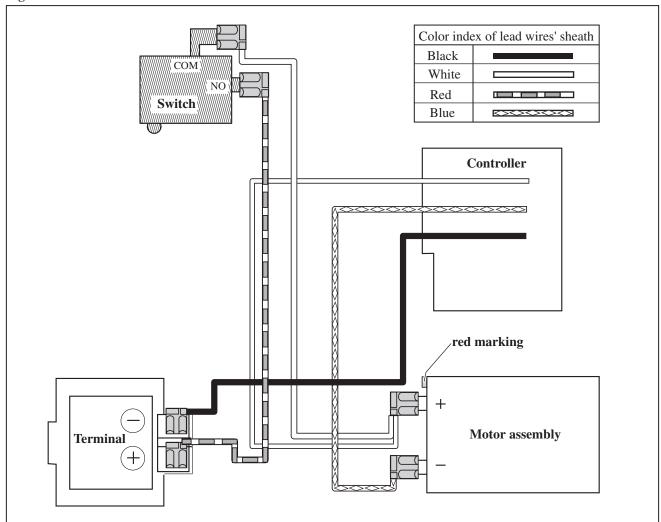
When Housing is disassembled, clean up the inside of the machine by blowing off the dust that settles on DC Motor, Fan, Housing, etc. with air duster for longer tool life. (Fig. 13)

Fig. 13



Circuit diagram

Fig. D-1



► Wiring diagram

[1] Wiring of Motor Assembly

Fig. D-2

Connect white Lead wires to the plus terminal of Motor assembly (the terminal indicated by a red marking).

Connect blue Lead wires to the other terminal (the minus terminal) of Motor assembly.

Then assemble Motor section to Housing (L) with the plus terminal of Motor assembly on Switch side (top side).

Note: Make sure that the wire connecting portion of each receptacle is positioned on Housing (L) side.

Switch side (top side)

red marking indicating plus pole

Housing (L) side

Housing (R) side

► Wiring diagram

[2] Wiring in Housing (L)

Fig. D-3

