

CORDLESS WORKLIGHT DML813, DML814

REPAIR MANUAL



1 CONTENTS

2 CAUTION	. 3 . 4 . 4
4 REPAIR 4-1 Disassembling 4-1-1 Body section 4-1-2 Lamp housing section 4-1-3 Electrical parts section 4-2 Assembling	.4 .4
4-1 Disassembling	.4
 4-1-1 Body section	4
 4-1-1 Body section	
 4-1-2 Lamp housing section	.4
4-2 Assembling	.9
4-2 Assembling	10
4.2.1 Electrical martine	13
4-2-1 Electrical parts section	13
4-2-2 Lamp housing section.	16
2-1-2 Assembling Body section	17
5 WIRING DIAGRAM	
6 TROUBLESHOOTING	25

2 CAUTION

Repair the machine in accordance with "Instruction manual" or "Safety instructions". Follow the instructions described below in advance before repairing:

- Wear gloves.
- In order to avoid wrong reassembly, draw or write down where and how the parts are assembled, and what the parts are. It is also recommended to have boxes ready to keep disassembled parts by group.
- Handle the disassembled parts carefully. Clean and wash them properly.
- Remove Battery, except when it is necessary to check the operation of the machine.

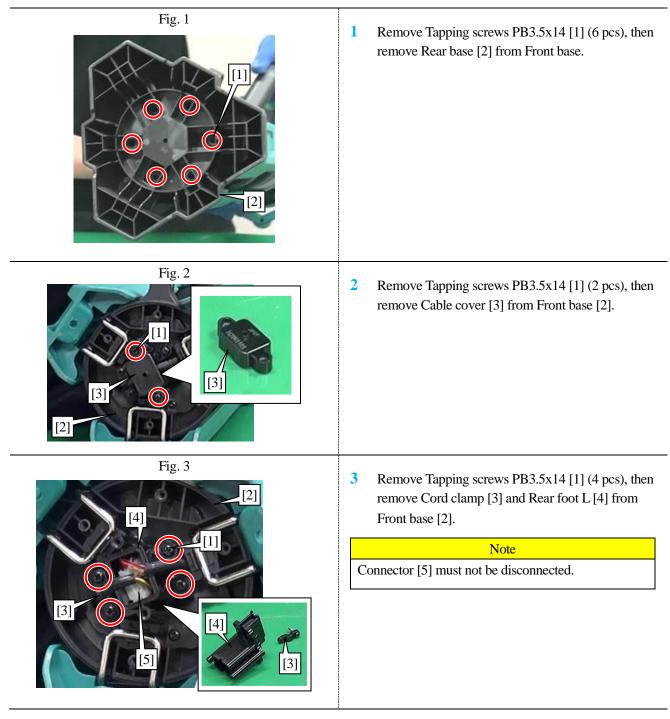
3 NECESSARY REPAIRING TOOLS

Code No.	Description	Use for
1R362	Retaining ring pliers L	removing/assembling Clamp bases A and B
1R411	Push bar for lead wires	fixing Lead wires
1R461	Grip for spring pin extractor	removing/assembling Leg pin
1R479	Shockless hammer (Small)	removing/assembling parts

4 **REPAIR**

4-1 Disassembling

4-1-1 Body section



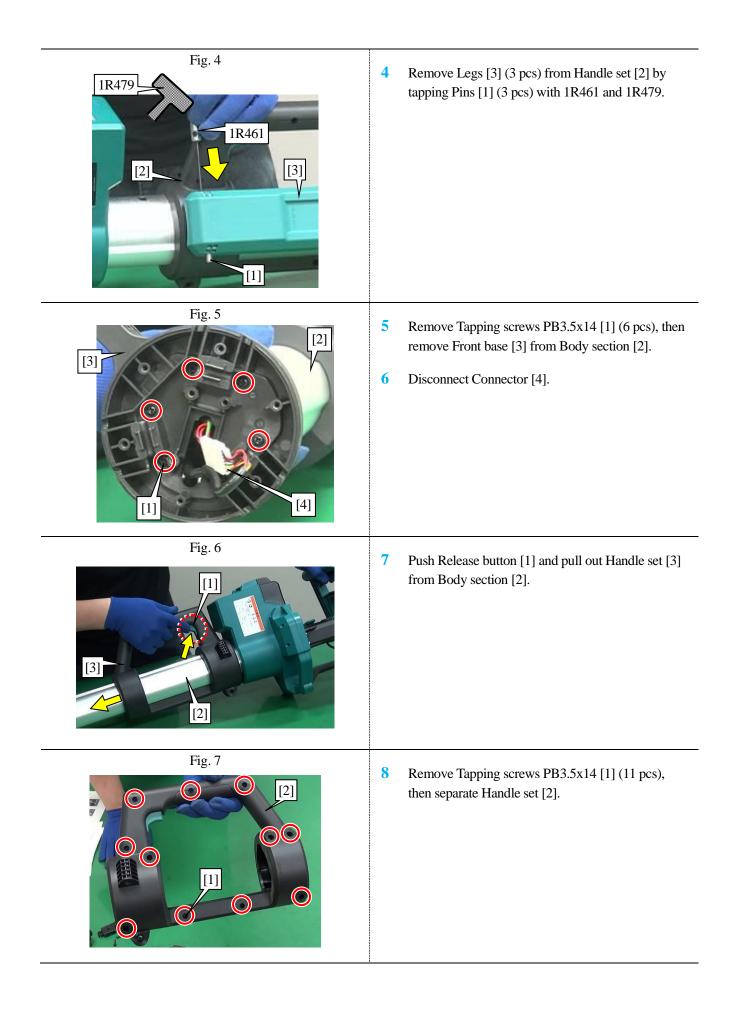
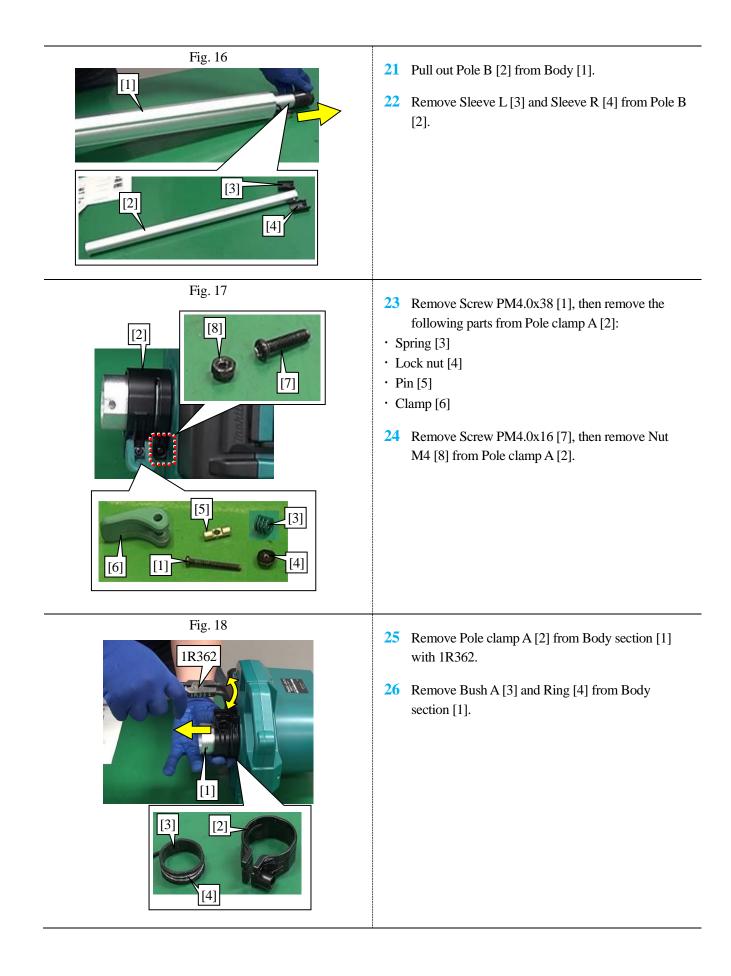
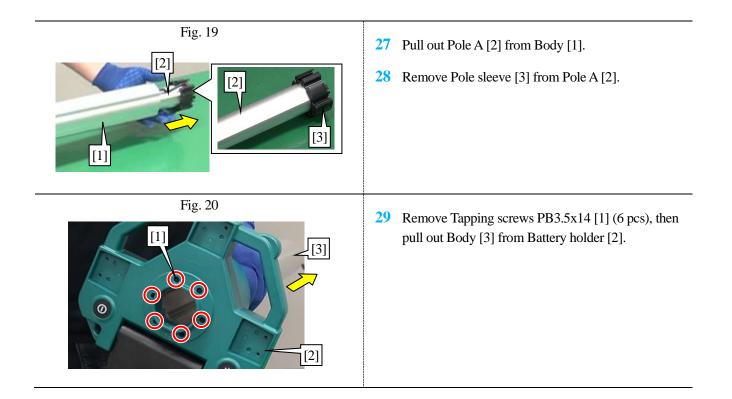


Fig. 8 Fig. 8 (2)	 9 Remove Release button [2] from Handle set [1]. 10 Remove the following parts from Release button [2]: • Pin [3] • Spring [4] • Latch [5]
Fig. 9	 Remove Screw PM5.0x30 [1], then remove the following parts from Base [2]: Flat washer [3] Spring washer [4] Flat washer [5] Remove Lamp housing section [7] from Body section [6].
Fig. 10	13 Remove Tapping screws PB3.5x14 [1] (4 pcs), then remove Pole cover [3] from Body section [2].
Fig. 11	14 Remove LED cable B [2] from Body section [1].

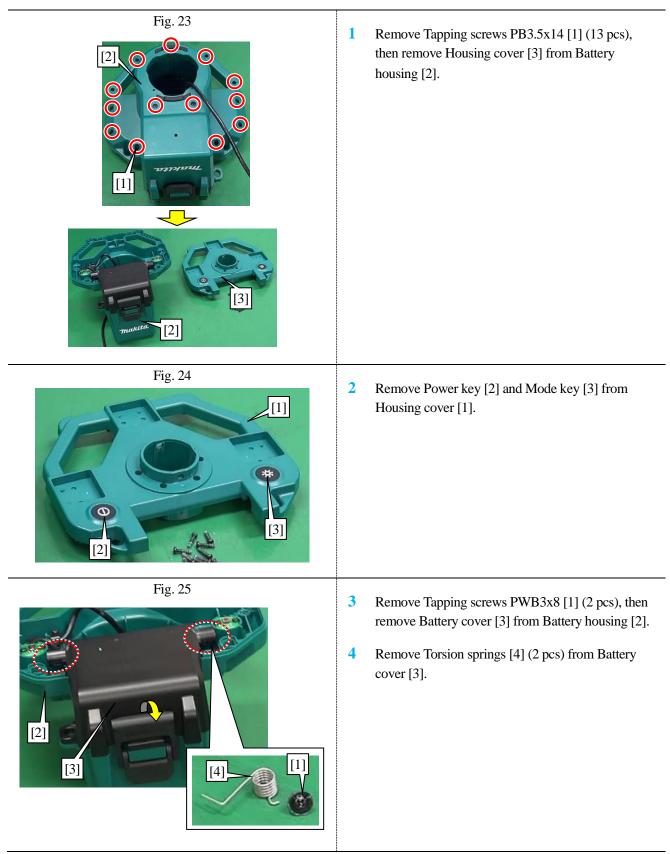
Fig. 12	15 Remove Tapping screws PB3.5x14 [1] (6 pcs), then remove Handle [3] from Handle supporter [2].
Fig. 13	16 Remove Tapping screws CB4.0x20 [1] (6 pcs), then remove Handle supporters [3] (3 pcs) from Lamp housing [2].
Fig. 14 Fig. 14	 17 Remove Screw PM4.0x38 [1], then remove the following parts from Pole clamp B [2]: Spring [3] Lock nut [4] Pin [5] Clamp [6] 18 Remove Screw PM4.0x16 [7], then remove Nut M4 [8] from Pole clamp B [2].
Fig. 15	 Remove Pole clamp B [2] from Body section [1] with 1R362. Remove Bush B [3] and Ring [4] from Body section [1].

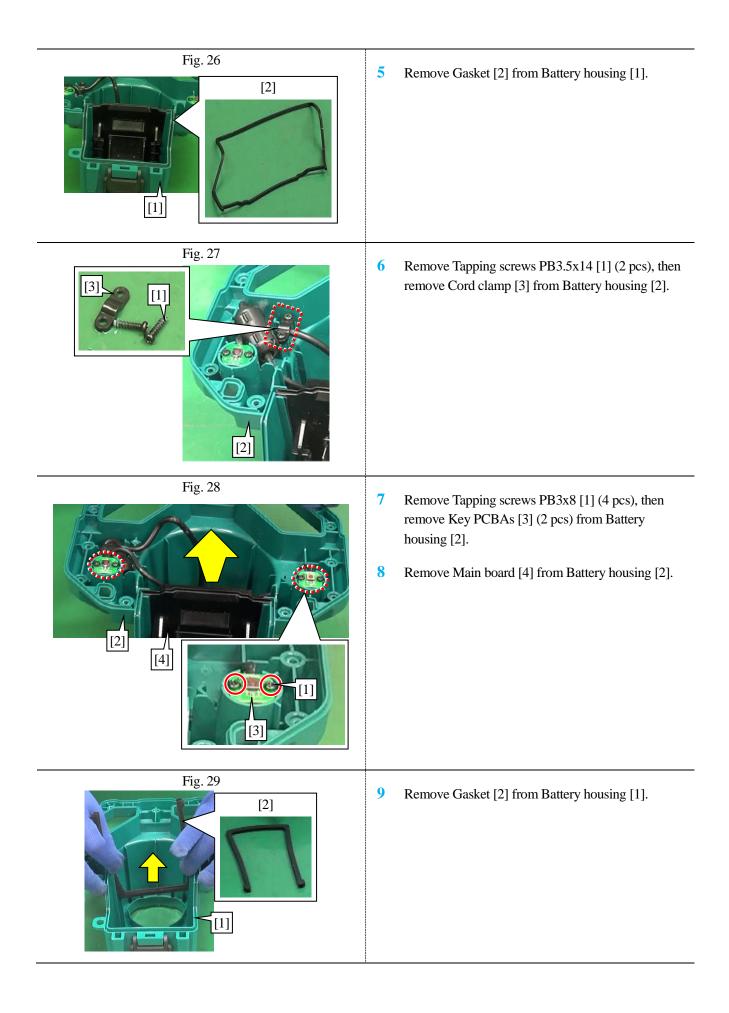


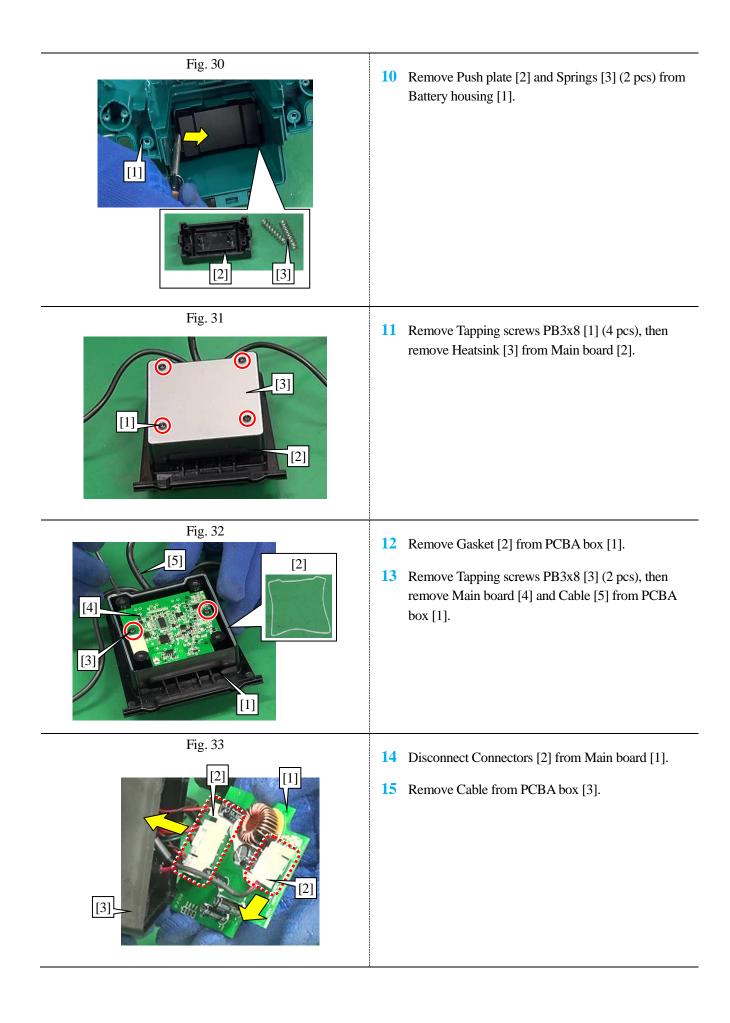


4-1-2 Lamp housing section

Fig. 21	 Remove Tapping screws PB 3.5x14 [1] (4 pcs), then remove Shaft cover L [3] and Shaft cover R [4] from Lamp housing [2]. Remove Base [5] from Lamp housing [2].
Fig. 22	 3 Remove Screws PW5.0x12 [1] (2 pcs), then remove the following parts from Base [2]: Flat washers [3] (2 pcs) Flat washers [4] (4 pcs) Spring washers [5] (2 pcs) Square washers [6] (2 pcs)







4-2 Assembling

4-2-1 Electrical parts section

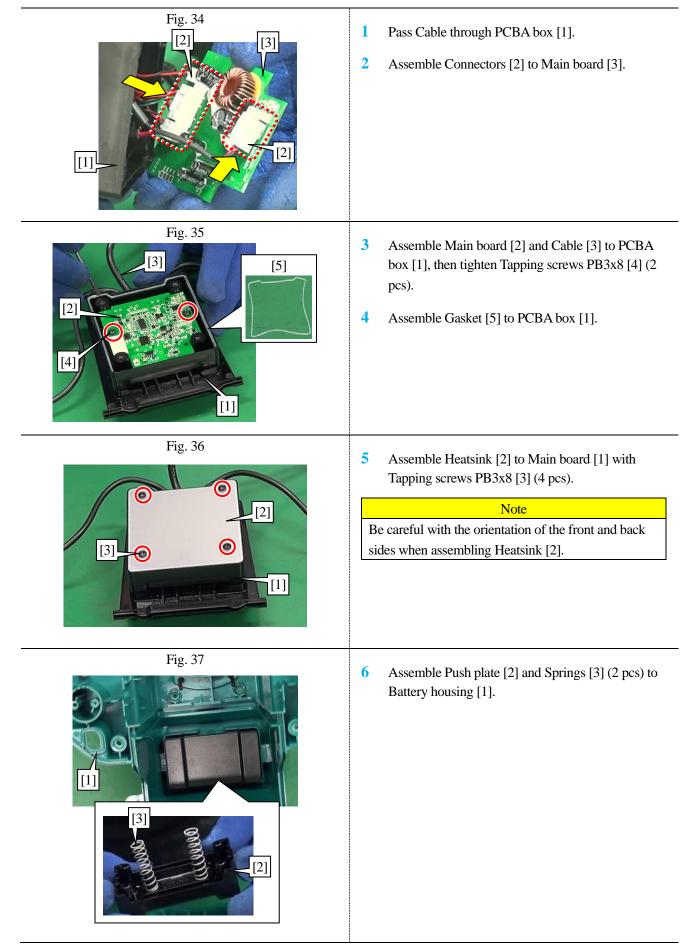
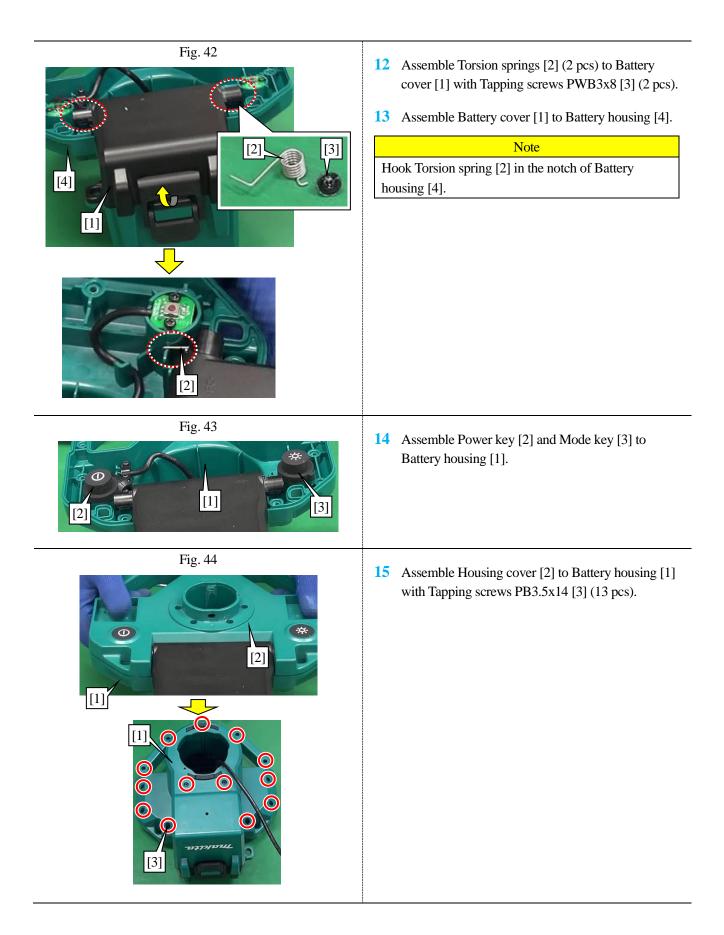


Fig. 38	7 Assemble Gasket [2] to Battery housing [1].
Fig. 39	 8 Assemble Main board [2] to Battery housing [1]. 9 Assemble Key PCBAs [3] (2 pcs) to Battery housing [1] with Tapping screws PB3x8 [4] (4 pcs). Note Be careful with the mark of Key PCBAs [3] (2 pcs) of Battery housing [1].
Fig. 40	10 Assemble Cord clamp [2] to Battery housing [1] with Tapping screws PB3.5x14 [3] (2 pcs).
Fig. 41	11 Assemble Gasket [2] to Battery housing [1].



4-2-2 Lamp housing section

Fig. 45	 Assemble the following parts to Base [1] with Screws PW5.0x12 [2] (2 pcs): Flat washers [3] (4 pcs) Square washers [4] (2 pcs) Spring washers [5] (2 pcs) Flat washers [6] (2 pcs)
Fig. 46	 Assemble the following parts to Lamp housing [1], then tighten Tapping screws PB3.5x14 [2] (4 pcs): Base [3] Shaft cover L [4] Shaft cover R [5] Note Align the marks of L and R on the following parts, then assemble them: Lamp housing [1] Base [3] Shaft cover L [4] Shaft cover R [5]

2-1-2 Assembling Body section

Fig. 47	 Pass Cable [1] through Cable holder of Housing cover [2] with 1R411, then assemble them to the notch of Body [3].
Fig. 48	2 Assemble Body [2] to Battery housing [1] with Tapping screws PB3.5x14 [3] (6 pcs).
Fig. 49 $\begin{bmatrix} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $	 3 Assemble Pole sleeve [2] to Pole A [1]. Note Be careful with each hole size of Pole A [1], then assemble Pole sleeve [2]. 4 Insert Pole A [1] into Body [3]. Note Pass Cable through the position shown in [4].

Fig. 50	
	 5 Assemble Bush A [2] and Ring [3] to Pole A [1] with 1R362. 6 Assemble Pole clamp A [4] to Pole A [1] with 1R362.
Fig. 51	7 Push Pole clamp A [1] into Battery housing [2] with 1R362.
Fig. 52	 8 Assemble Nut M4 [2] to Pole clamp A [1], then tighten Screw PM4.0x16 [3]. 9 Assemble Pin [5] and Screw PM4.0x38 [6] to Clamp [4]. 10 Assemble Clamp [4] to Pole clamp A [1]. 11 Assemble Spring [7] and Lock nut [8] to Pole clamp A [1], then tighten Screw PM4.0x38 [6]. <u>Note</u> Be careful with the tightness of Screw PM4.0x38 [6].

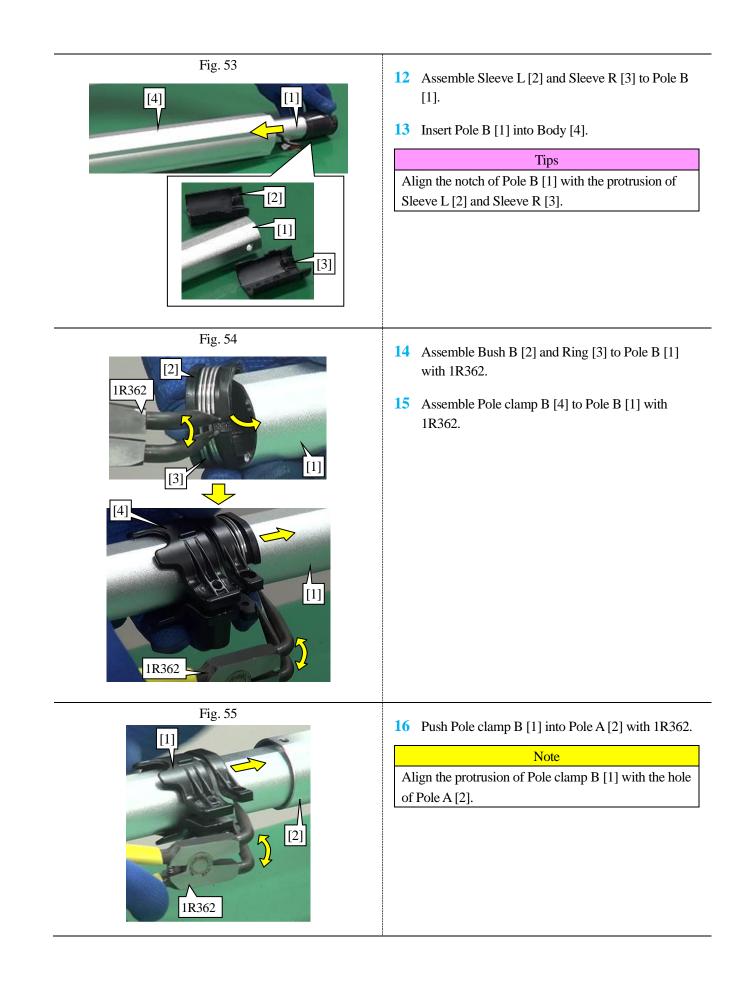


Fig. 56	 17 Assemble Nut M4 [2] to Pole clamp B [1], then tighten Screw PM4.0x16 [3]. 18 Assemble Pin [5] and Screw PM4.0x38 [6] to Clamp [4]. 19 Assemble Clamp [4] to Pole clamp B [1]. 20 Assemble Spring [7] and Lock nut [8] to Pole clamp B [1], then tighten Screw PM4.0x38 [6]. <u>Note</u> Be careful with the tightness of Screw PM4.0x38 [6].
Fig. 57	21 Assemble Handle supporters [2] (3 pcs) to Lamp housing [1] with Tapping screws CB4.0x20 [3] (6 pcs).
Fig. 58	22 Assemble Handle [2] to Handle supporter [1] with Tapping screws PB3.5x14 [3] (6 pcs).
Fig. 59	 23 Pass LED cable B [2] through Body section [1]. 24 Connect Connector [3]. Tips Pull out LED cable B [2] from Body section [1] with a string or the like.

Fig. 60	25 Assemble LED cable B [2] and Pole cover [3] to Body section [1], then tighten Tapping screws PB3.5x14 [4] (4 pcs). Note Be careful with the shape of Pole cover [3] and LED cable B [2].
Fig. 61	 26 Assemble Lamp housing section [2] to Body section [1]. 27 Assemble the following parts to Base [3] with Screw PM5.0x30 [4]: Flat washer [5] Spring washer [6] Flat washer [7]
Fig. 62	 28 Assemble the following parts to Release button [1]: Pin [2] Spring [3] Latch [4] 29 Assemble Release button [1] to Handle set [5].

Fig. 63	30 Assemble Handle set [1] with Tapping screws PB3.5x14 [2] (11 pcs).
Fig. 64	31 Push Release button [1] and insert Handle set [3] into Body section [2].
Fig. 65	 32 Pass LED cable B [1] through Front base [2]. Note Be careful with the tension of LED cable B [1]. 33 Assemble Front base [2] to Body section [3] with Tapping screws PB3.5x14 [4] (6 pcs).

Fig. 66	 34 Assemble Rear foot L [2] to Front base [1], then put Connector [3] into Rear foot L [2]. 35 Assemble Cable cover [4] to Rear foot L [2]. 36 Assemble Cord clamp [5] to Front base [1]. 37 Tighten Tapping screws PB3.5x14 [6] (6 pcs).
Fig. 67	38 Assemble Legs [3] (3 pcs) to Body section [2] by
1R479 [3] [1] [2]	38 Assemble Legs [3] (3 pcs) to Body section [2] by tapping Pins [1] (3 pcs) with 1R479.
Fig. 68	 39 Assemble Rear base [2] to Body section [1] with Tapping screws PB3.5x14 [3] (6 pcs). Note Align the notches of Rear base [2] with those of Front base.

5 WIRING DIAGRAM

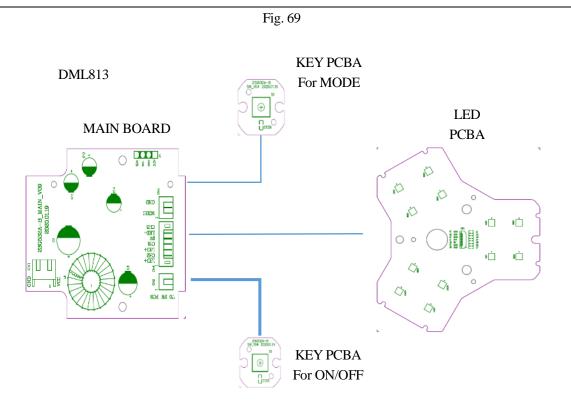
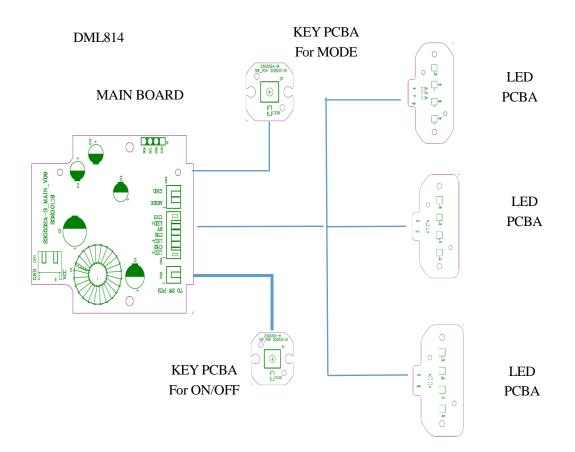


Fig. 70



6 TROUBLESHOOTING

