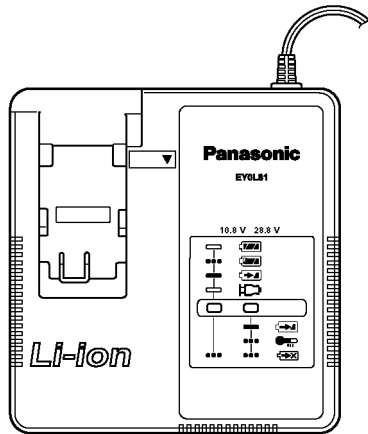


Service Manual

Battery Charger

Model No. **EY0L81**

North America



⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by **⚠** in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

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1 Warning

Caution:

- Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a soldering iron with temperature control and adjust it to 750 ± 20°F (400 ± 10°C). In case of using high temperature soldering iron, please be careful not to heat too long.
- Pb free solder will tend to splash when heated too high (about 1100°F / 600°C).

2 Specifications

MAIN UNIT

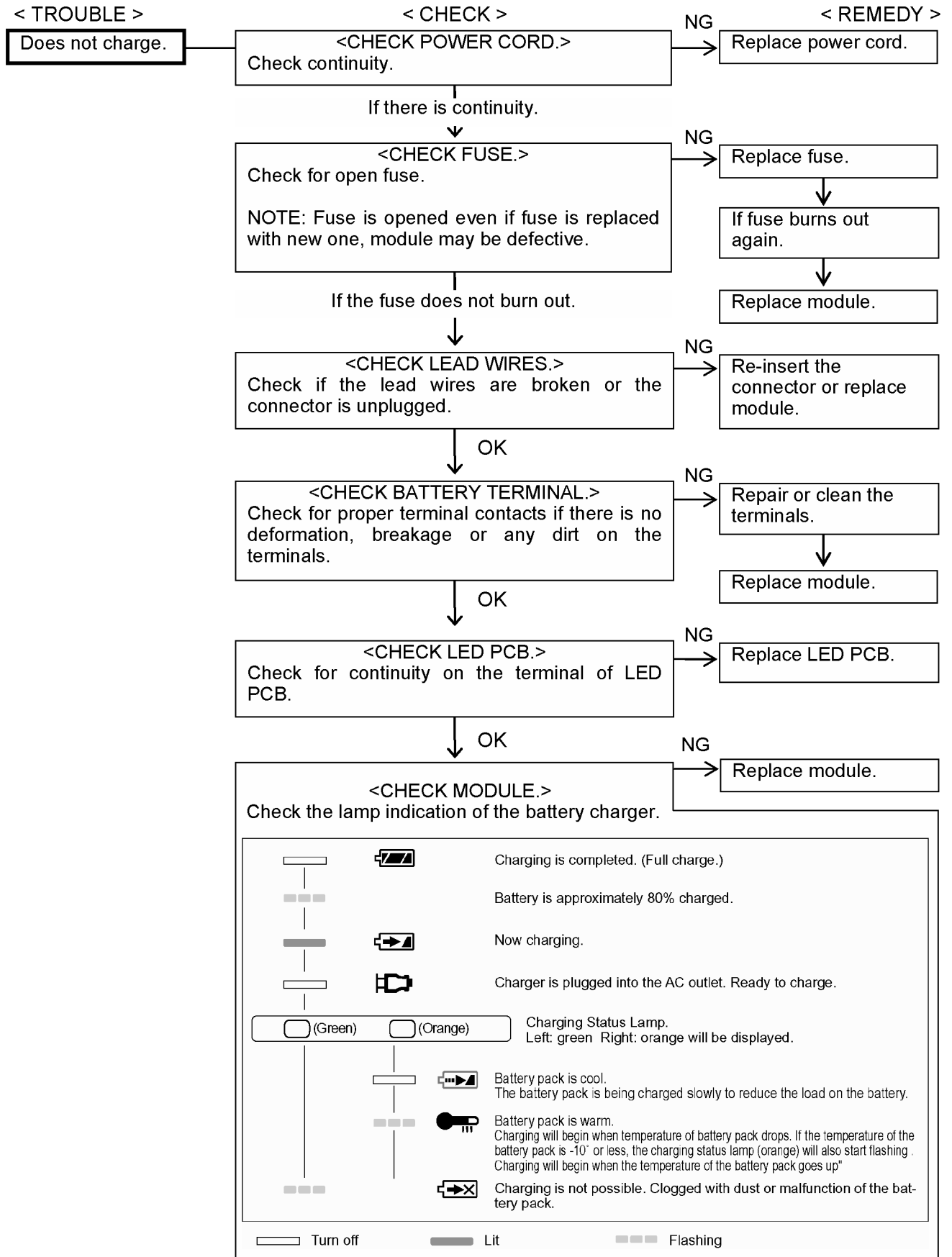
Input	120V AC, 50-60Hz
Output	DC28.8V, 3.75A
Power consumption	Max. 95W
Weight	0.95 kg (2.1lbs.)

CHARGING TIME

		10.8V	14.4V		21.6V	28.8V
		EYFB30	EY9L41	EY9L42	EY9L61	EY9L81
Charging time	Usable	40 min.	45 min.	30 min.	55 min.	65 min.
	Full	65 min.	60 min.	35 min.	70 min.	80 min.

NOTE: This chart may include models that are not available in your area.

3 Troubleshooting Guide

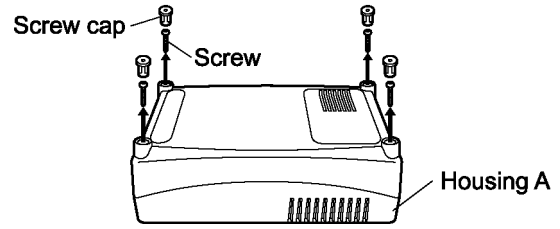


4 Disassembly and Assembly Instructions

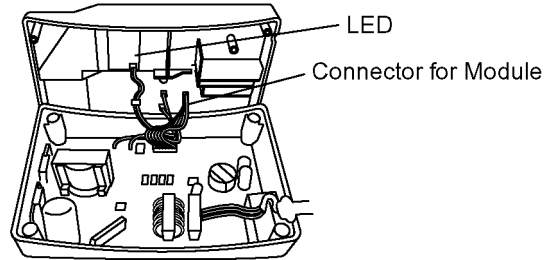
4.1. Caution in Disassembly

4.1.1. Main unit

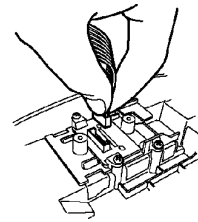
1. Take out 4 screw caps and loosen 4 screws.



2. Loosen a screw and remove LED PCB.

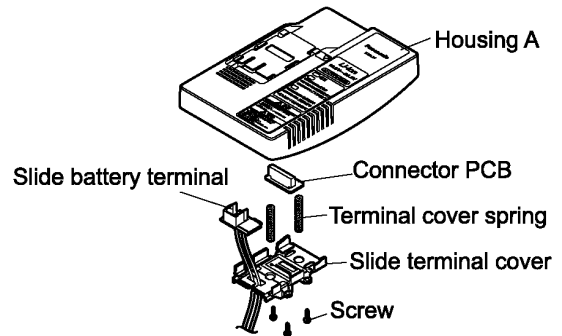


3. Take out the connector by holding the bottom of connector firmly.

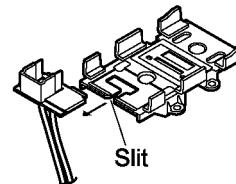


4.1.2. Terminal plate

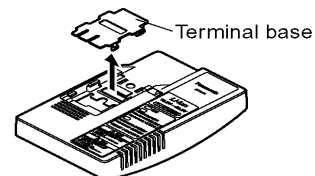
1. Loosen 3 screws. Remove the slide terminal cover, the terminal cover spring and connector PCB.



2. Take out the slide terminal by passing the slit of lead wires.



3. Take out the terminal base.

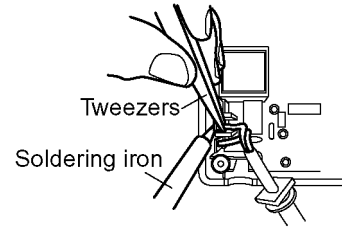


4.1.3. Fuse

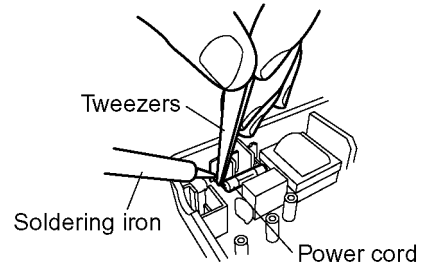
1. Unsolder by holding the fuse with something like a tweezers.

NOTE:

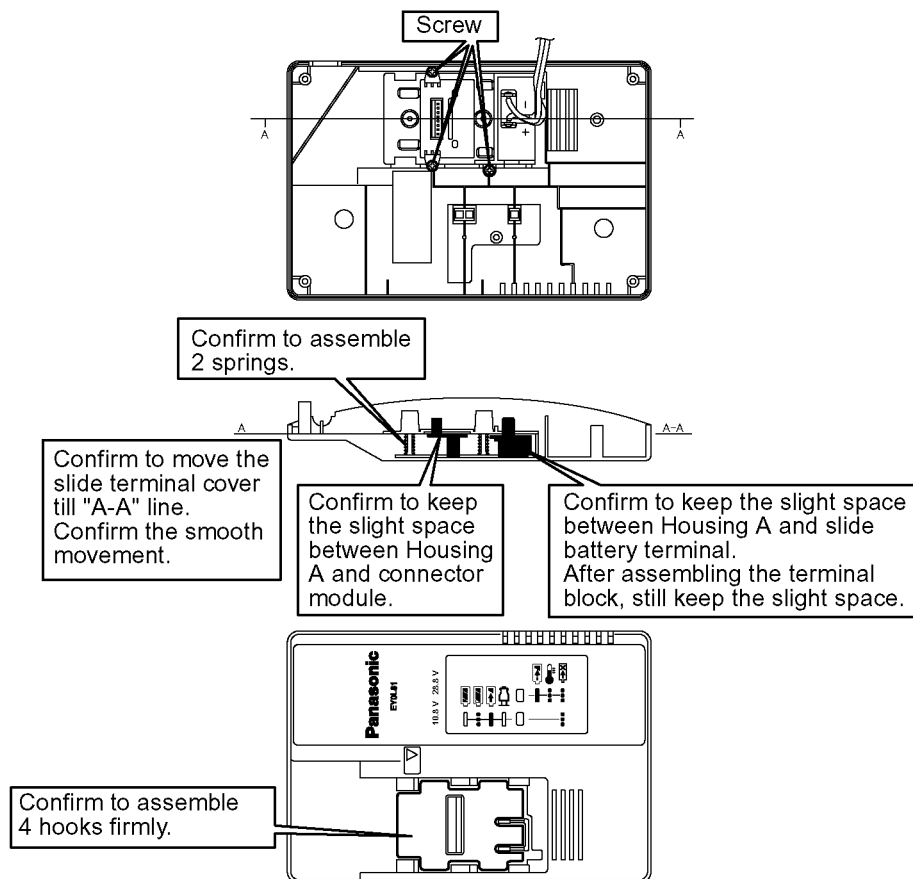
Be careful not to touch the soldering iron with the housing.



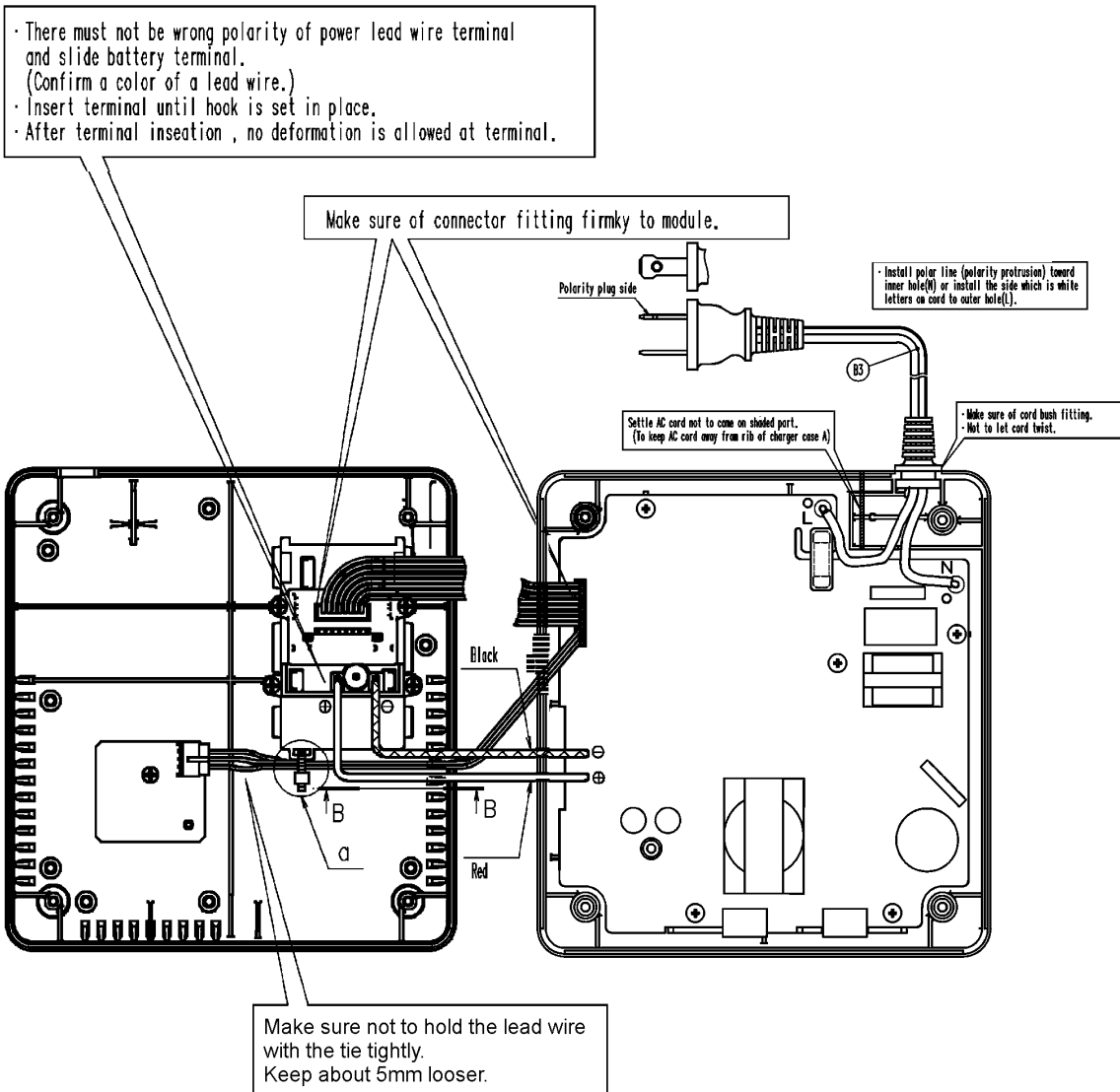
2. Unsolder the lead wires by holding the power cord where wrapping area with care of not to touching the soldering iron with the housing.



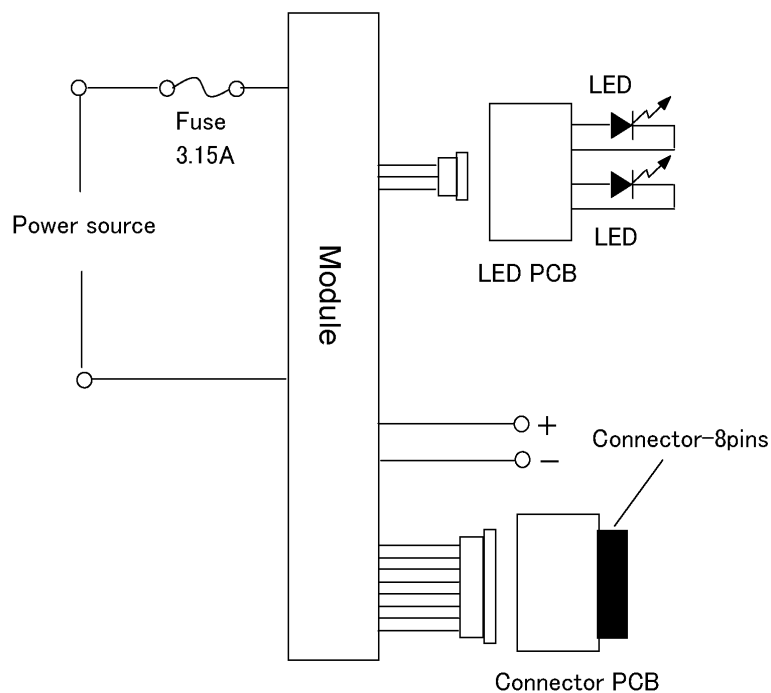
4.1.4. Check point



5 Wiring Connection Diagram

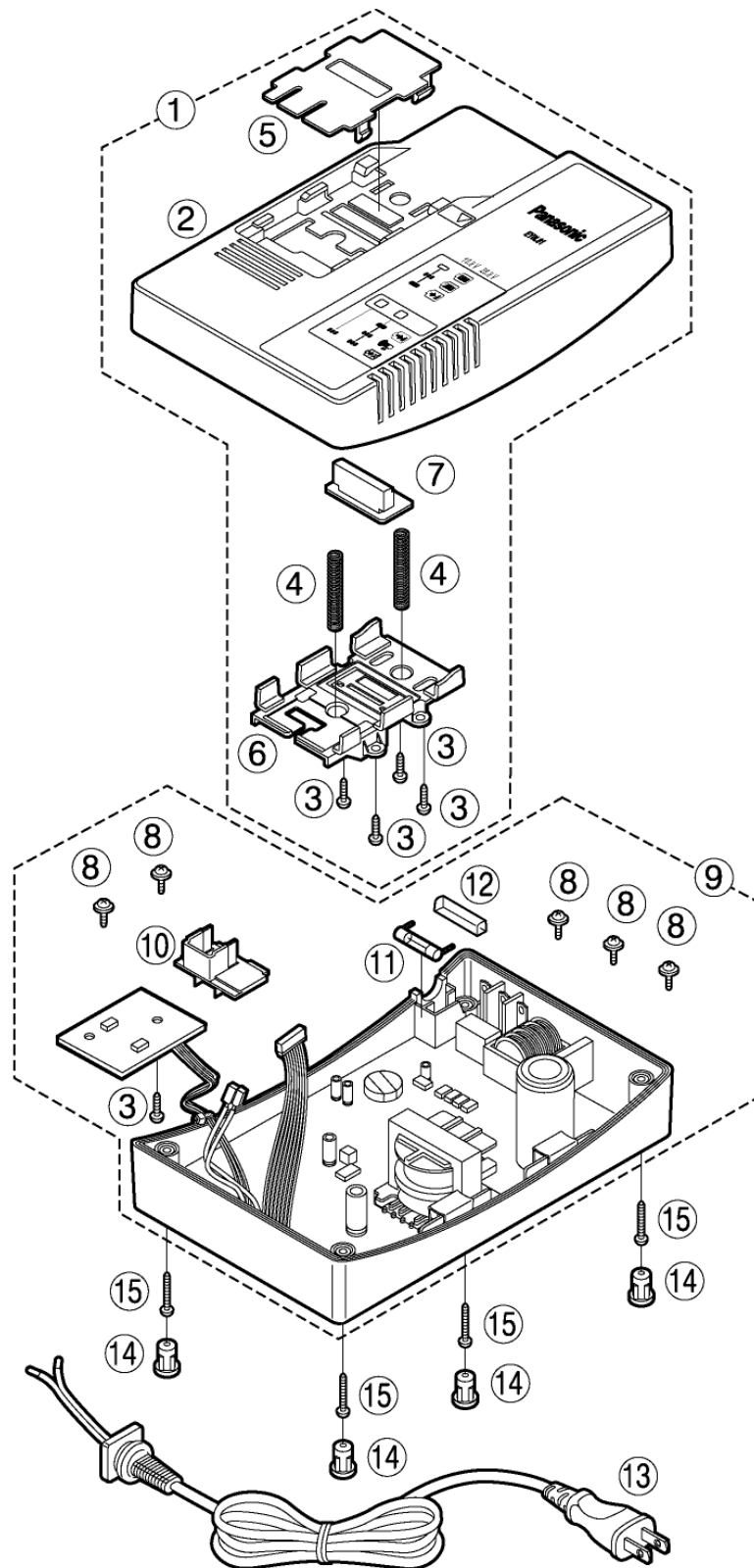


6 Schematic Diagram



7 Exploded View and Replacement Parts List

Model No. : EY0L81 Exploded View



Model No. : EY0L81 Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	1	WEY0L81K4158	HOUSING A ASSEMBLY	1	
	2	WEY0L81K3098	HOUSING A	1	
	3	WEY0L81L9048	TAPPING SCREW	5	(K3-8)
	4	WEY0L81L0928	SPRING	2	(2PCS/PK)
	5	WEY0L81K2408	SLIDE PLATE	1	
	6	WEY0L81L3168	SLIDE TERMINAL COVER	1	
	7	WEY0L81L2128	CONNECTOR MODULE	1	
	8	WEY0L81L6018	TAPPING SCREW	5	(2.6×8)
	9	WEY0L81L2108	HOUSING B & MODULE BLOCK	1	
	10	WEY0L81L2428	BATTERY TERMINAL	1	
	11	WEY0L80L2618	FUSE	1	(250V 3.15A)
	12	WEY0L80A3108	FUSE COVER	1	
	13	WEY0L81K2058	POWER CORD	1	(A-2 PLUG)
	14	WEY0L81K3178	SCREW CAP	4	(4PCS/PK)
	15	WEY0L81K6238	TORX TAPPING SCREW	4	(K3-20)
	-	WEY0L81K8008	INDIVIDUAL BOX	1	
	-	WEY0L81K8108	OPERATING INSTRUCTIONS	1	