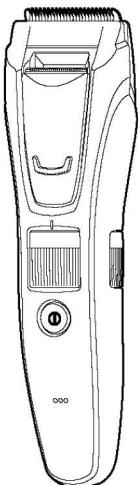


Service Manual

AC/Rechargeable Beard/Hair Trimmer



Europe
CIS

Model No. ER-GB60

⚠ 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 \triangle 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

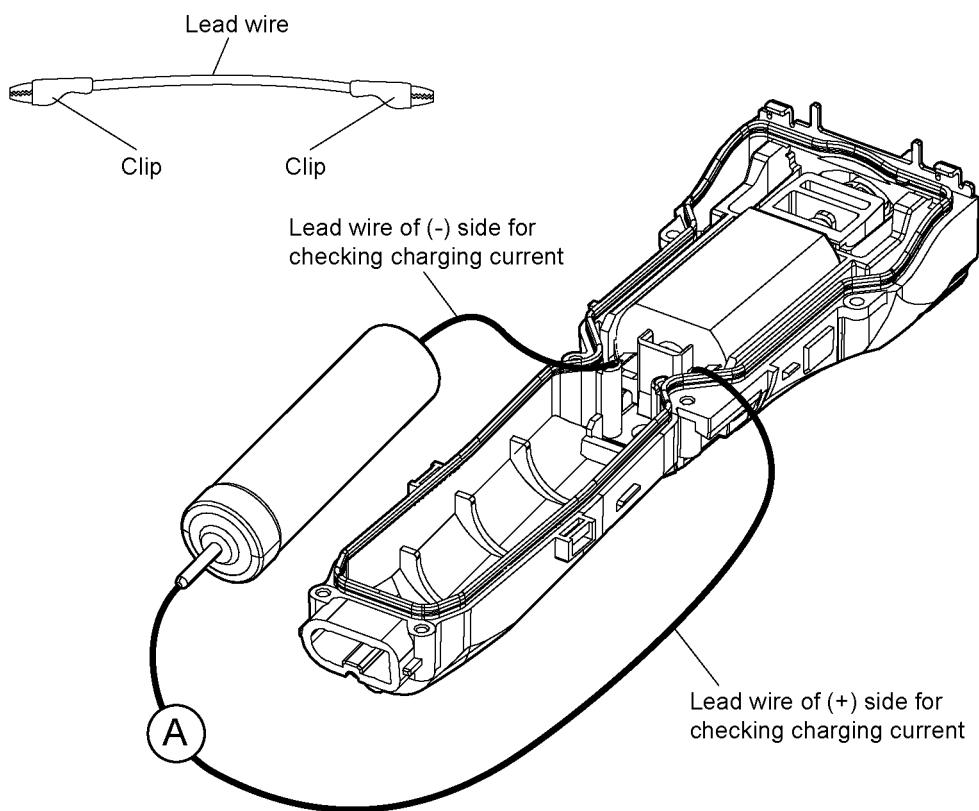
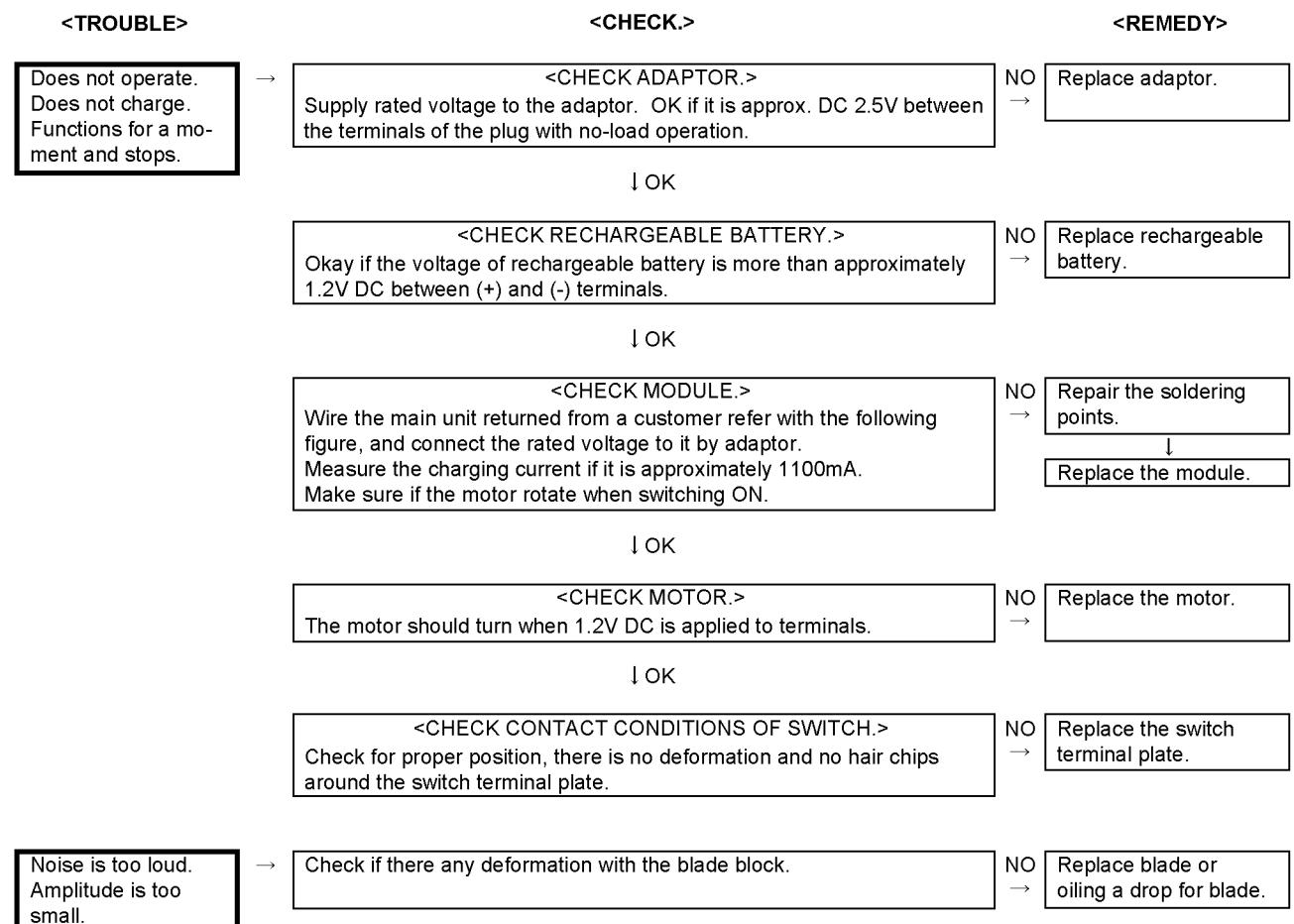
Caution:

- Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°) higher. Please use a soldering iron with temperature control and adjust it to $750 \pm 20^{\circ}\text{F}$ ($400 \pm 10^{\circ}$). 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

Power source	AC 100-240V, 50-60Hz
Motor voltage	1.2 V DC
Charging time	1 hour
Rated usable time with full-charging	50 minutes
Weight	Approx. 176g (ER-GB80, ER-GB70), Approx. 172g (ER-GB60) Approx. 181g (Adaptor)
Supplied accessories	Comb attachment for beard : 1 - 10mm (1/32" . 13/32") Comb attachment for hair : 11 - 20mm (7/16" . 51/64") Comb attachment for body hair (Only for ER-GB80) Pouch Cleaning brush Oil

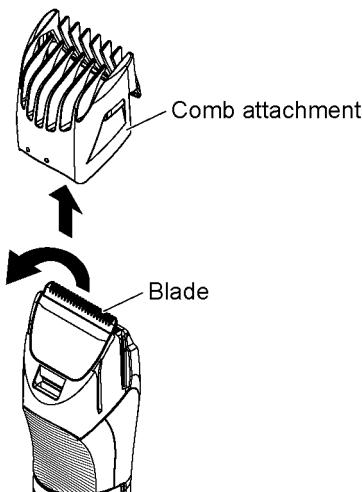
3 Troubleshooting Guide



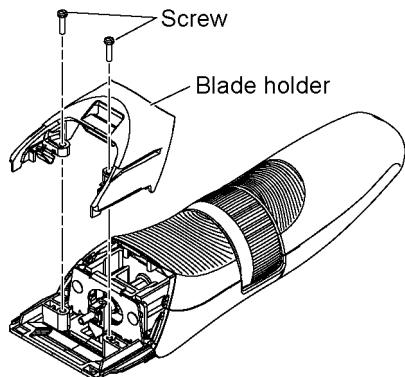
4 Disassembly and Assembly Instructions

4.1. Disassembly Instructions

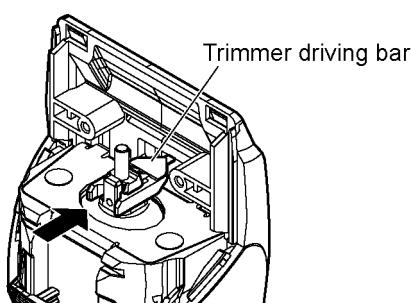
1. Remove the attachment and blade.



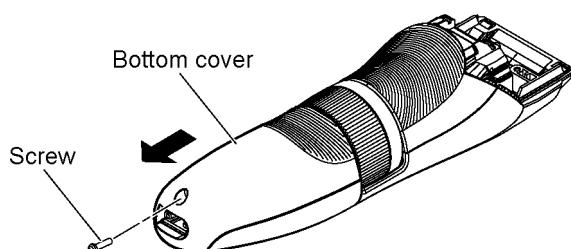
2. Loosen two screws and remove the blade holder.



3. Press the trimmer driving bar outward. (ER-GB80 and ER-GB70 only)



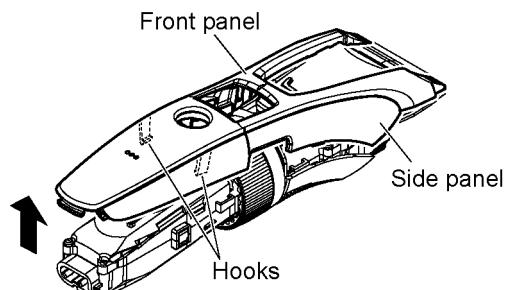
4. Loosen a screw on bottom and slide down the bottom cover.



5. Remove the front panel together with the side panels.

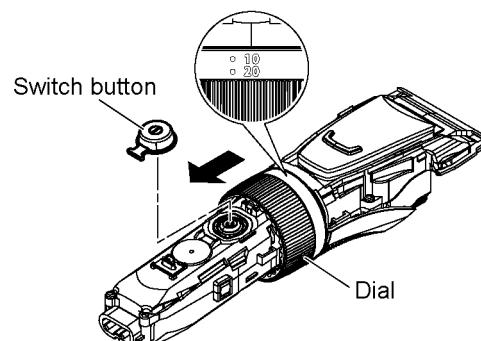
NOTE:

If the front panel is removed alone, it may deform.

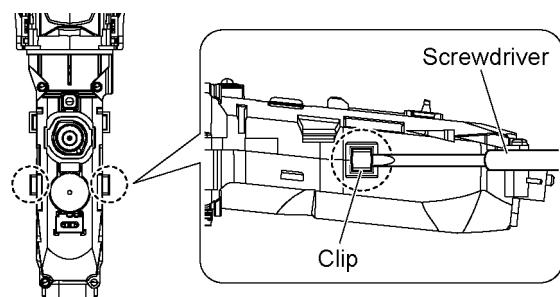


6. Remove the switch button.

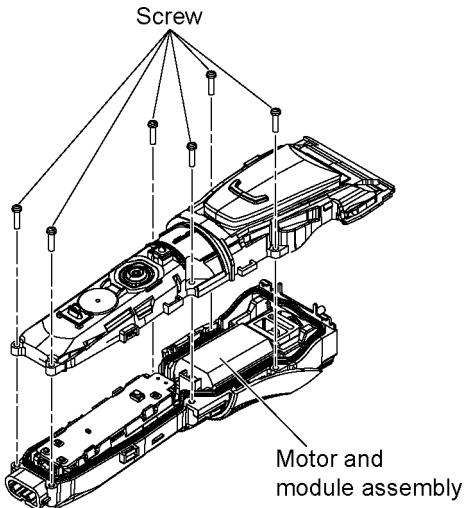
7. Adjust the trimming height indication mark to the maximum [10][20] position.
Slide down the dial.



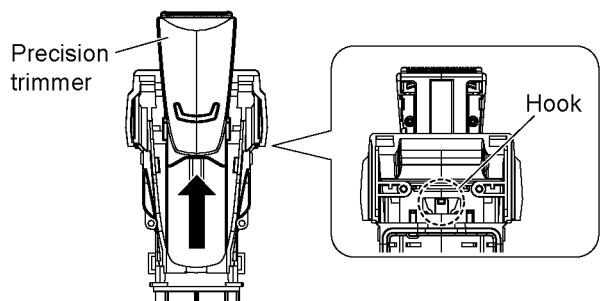
8. Insert a slotted screwdriver to take out the clip on both side.



9. Loosen 6 screws and remove the motor and module assembly.



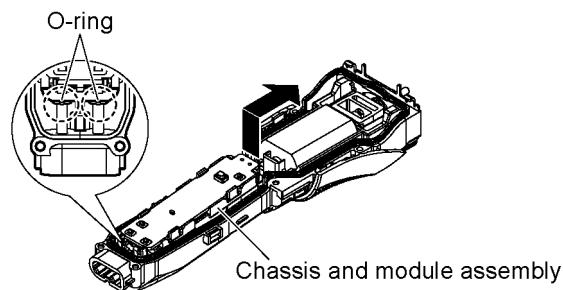
13. Slide up the trimmer and set the highest position. Unhook the rear side of trimmer to separate from the housing. (ER-GB80 and ER-GB70 only)



10. Pull the chassis and module assembly upward.

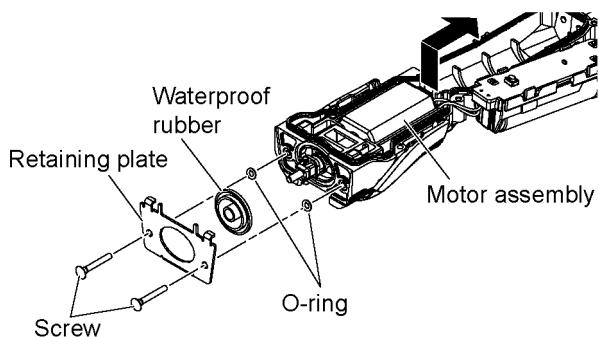
NOTE:

Make sure to attach the O-ring.



11. Remove two screws, retaining plate, O-rings and waterproof rubber.

12. Pull the motor assembly upward.



4.2. Assembly Instructions

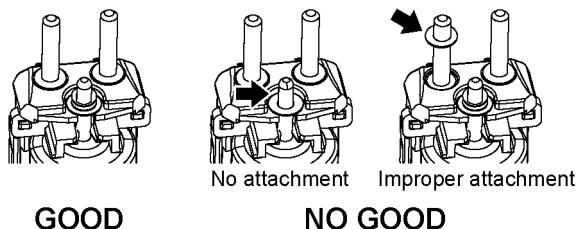
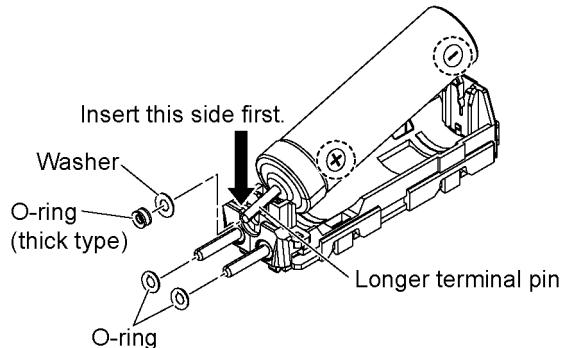
1. Rechargeable battery

Insert the rechargeable battery into the battery holder.

NOTE:

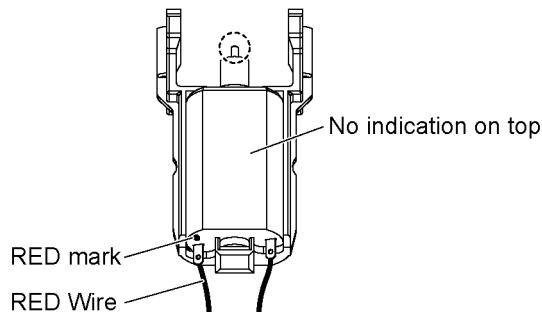
Make sure to attach the washer and O-ring to the battery terminal.

And apply the grease (FLOIL G741S).



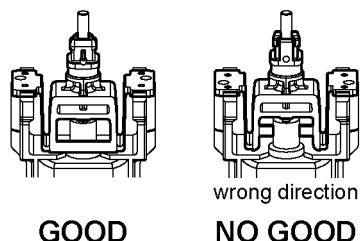
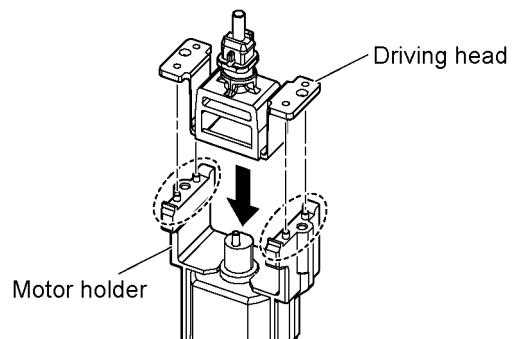
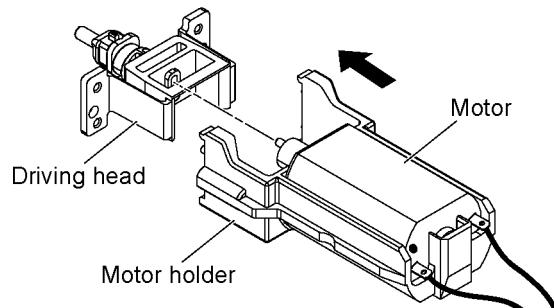
2. Motor

Apply the grease (FLOIL G741S) on the motor balancer. Insert the motor into the motor holder with the confirmation of the direction.



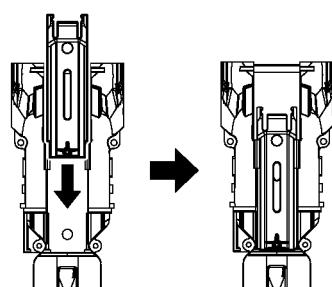
3. Driving head

Insert a motor tip pin into the hole of driving head and fit the projections of housing into the holes of driving head.



4. Dial lever

Attach the dial lever to the housing.



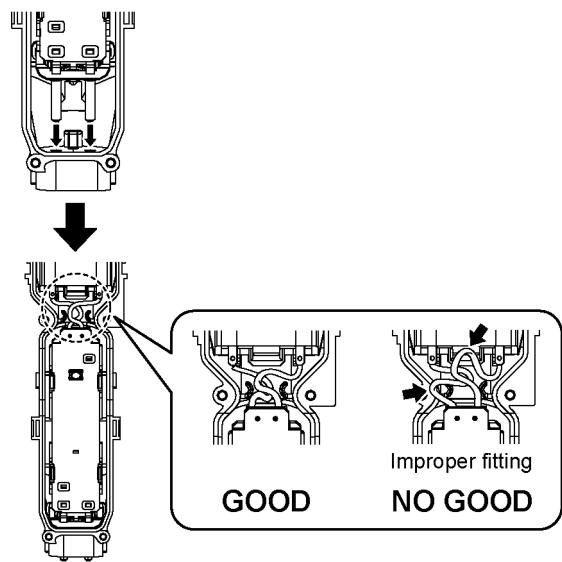
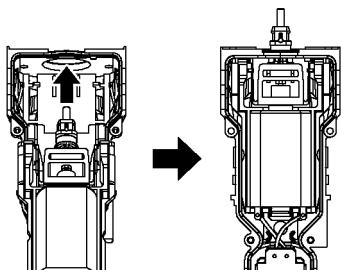
5. Driving block

Set the motor, module and battery assembly to the housing A.

Place the motor holder first and then inset the battery terminal side.

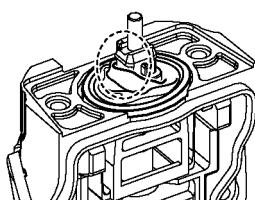
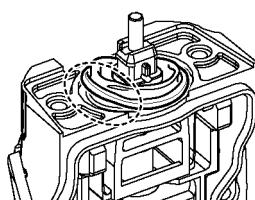
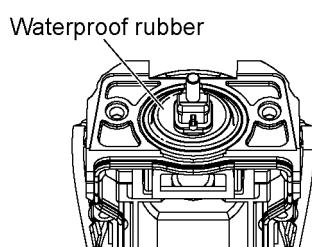
NOTE:

Make sure that two motor lead wires are pressed fit within the space between the battery holder and the motor holder to prevent pinching.



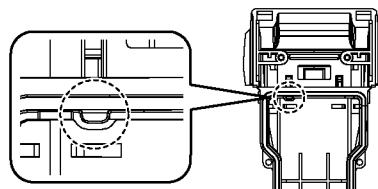
6. Waterproof rubber

The waterproof rubber must be fitted the right way around.



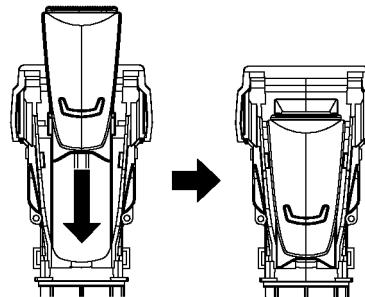
7. Housing O-ring

Apply the grease (FLOIL G714S) on the housing O ring. Align the projection of the housing O-ring and the groove of housing.



8. Trimmer

Set the trimmer on the housing.



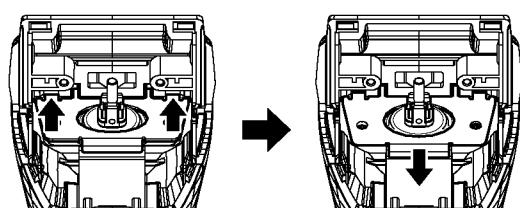
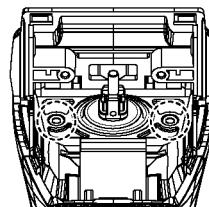
9. Retaining plate

Attach two O-rings.

Hitch the projections of retaining plate first and press down on the other side.

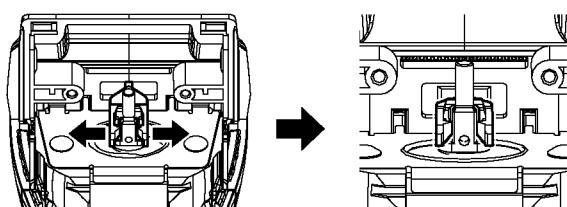
NOTE:

Make sure that the waterproof rubber is set properly.



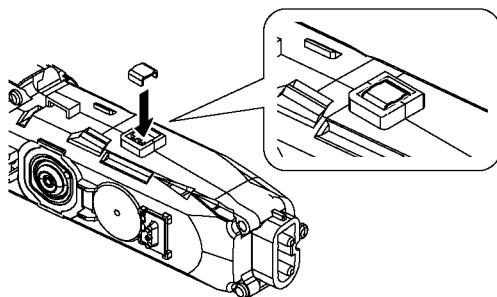
10. Trimmer driving bar

Set the trimmer driving bar to the pin of driving head.



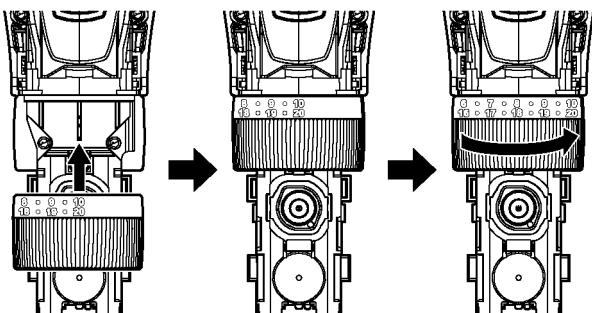
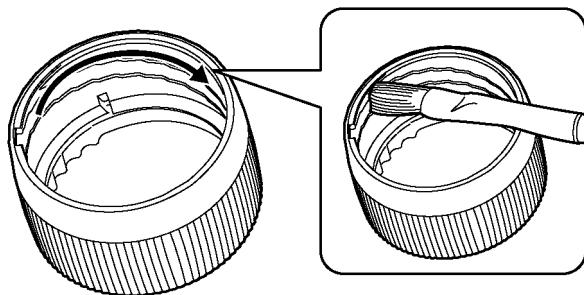
11. Housing clip

Set the both side of housing clips firmly.



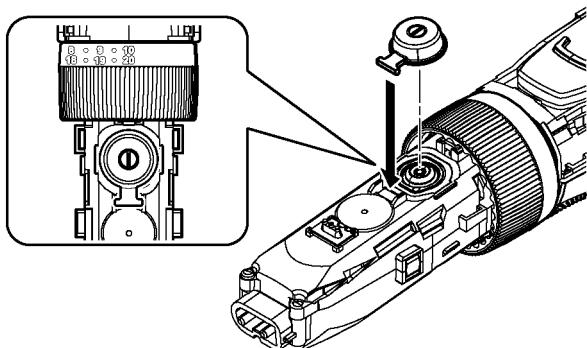
12. Dial

Apply the grease (FLOIL G714S) on the rear side of dial.
Align the mark with the dial "10/20" and set in position.



13. Switch

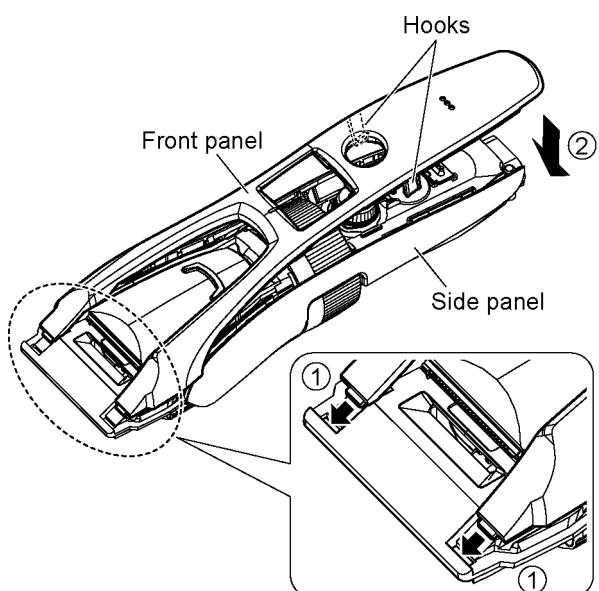
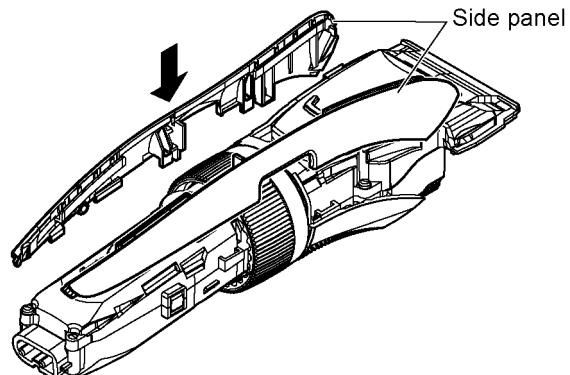
Insert the projections of switch button into housing.



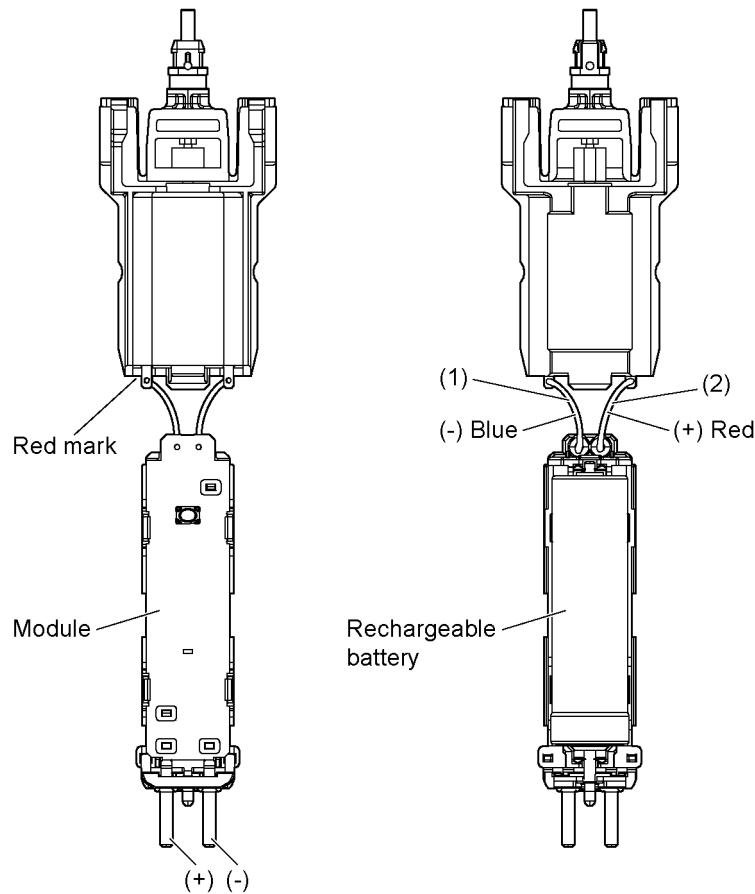
14. Side panel and Front panel

Attach both side of side panels by inserting the hooks into the slit of housing.

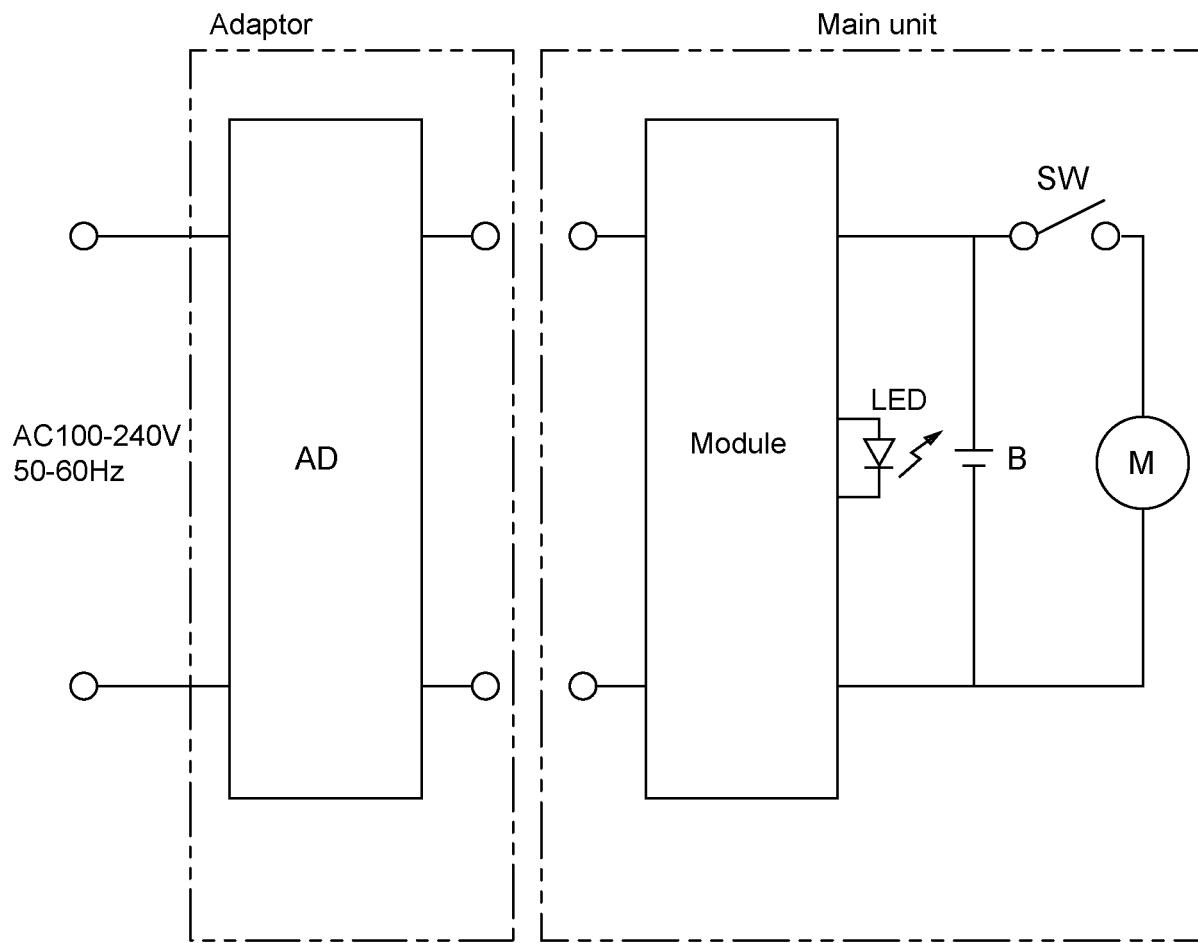
Insert the projections of housing and press the hook on body.



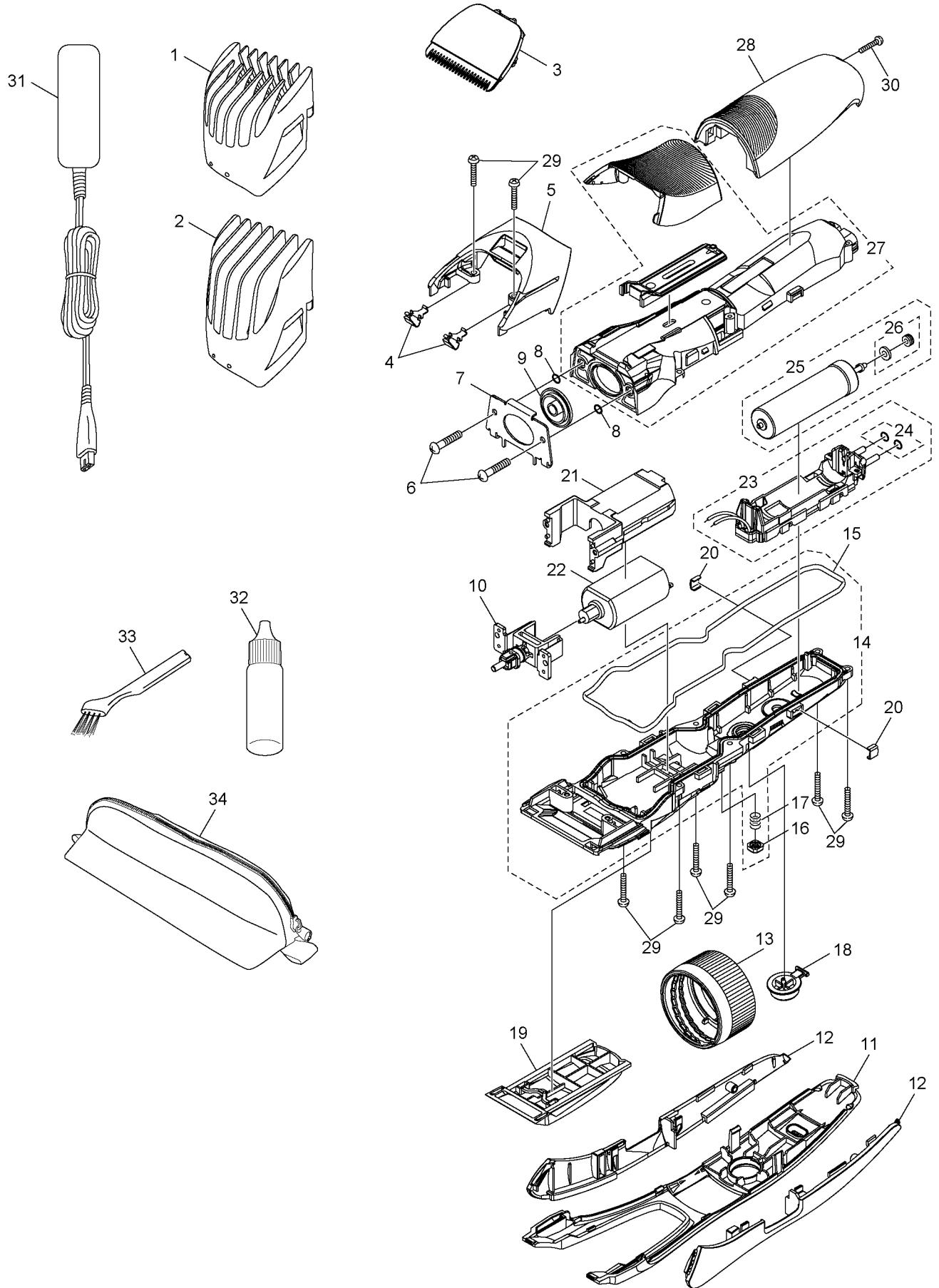
5 Wiring Connection Diagram



6 Schematic Diagram



7.5. Exploded View For ER-GB60



7.6. Replacement Parts List For ER-GB60

Safety	Ref. No.	Part No.	Part Name & Description	Quan- tity	Remarks
	1	WERGB80K7458	COMB ATTACHMENT	1	
	2	WERGB80K7468	COMB ATTACHMENT	1	
	3	WER9602Y	BLADE BLOCK	1	
	4	WER504L0167	SPRING FOR CUTTER	2	(2PCS/PK)
	5	WERGB80K1588	BLADE HOLDER	1	
	6	WES7025L9707	SCREW	2	
	7	WER223L0207	RETAINING PLATE	1	
	8	WER217L0967	O-RING	2	(6PCS/PK)
	9	WES36L0326	WATERPROOF RUBBER	1	
	10	WER223L1247	DRIVING HEADS	1	
	11	WERGB60K3858	FRONT PANEL	1	
	12	WERGB80K3368	SIDE PANEL SET	1ST	
	13	WERGB80K3338	DIAL	1	
	14	WERGB60K3058	HOUSING A	1	
	15	WERGB80L0588	HOUSING O-RING	1	
	16	WERGB40L0458	CLICK BUTTON	1	
	17	WERGB40L0178	SPRING A	1	
	18	WERGB60K3208	SWITCH BUTTON	1	
	19	WERGB60K1508	TRIMMER PLATE	1	
	20	WES8176L0166	HOUSING CLIP	1	
	21	WER223L2107	MOTOR HOLDER	1	
	22	WERGB80L1008	MOTOR	1	
	23	WERGB80L2108	MODULE ASSEMBLY	1	
	24	WER217L0977	O-RING	2	(2PCS/PK)
	25	WERGB80L2508	RECHARGEABLE BATTERY	1	NI-MH TYPE
	26	WES7025L0977	O-RING AND WASHER	1	(2PCS/PK)
	27	WERGB80K3068	HOUSING B	1	
	28	WERGB60K3848	BOTTOM COVER	1	
	28	WERGB60K3849	BOTTOM COVER	1	only for CIS
	29	WESRT64L6058	TAPPING SCREW	8	K2-10
	30	WERGB80L6068	TAPPING SCREW	1	K2-8
	31	WERGC70K7664	ADAPTOR	1	C-2 PLUG
	31	WERGB80K7661	ADAPTOR	1	C-2 PLUG only for CIS
	32	WER203X7918	OIL	1	
	33	WES76806761	CLEANING BRUSH	1	
	34	WER217K7007	SOFT CASE	1	
-	WERGB60K8008	INDIVIDUAL BOX	1		
-	WERGB60K8009	INDIVIDUAL BOX	1	only for CIS	
-	WERGB80S8108	OPERATING INSTRUCTIONS	1		
-	WERGB80S8109	OPERATING INSTRUCTIONS	1	only for CIS	