

Service Manual

Rechargeable Shaver

Model No. **ES8243**

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:

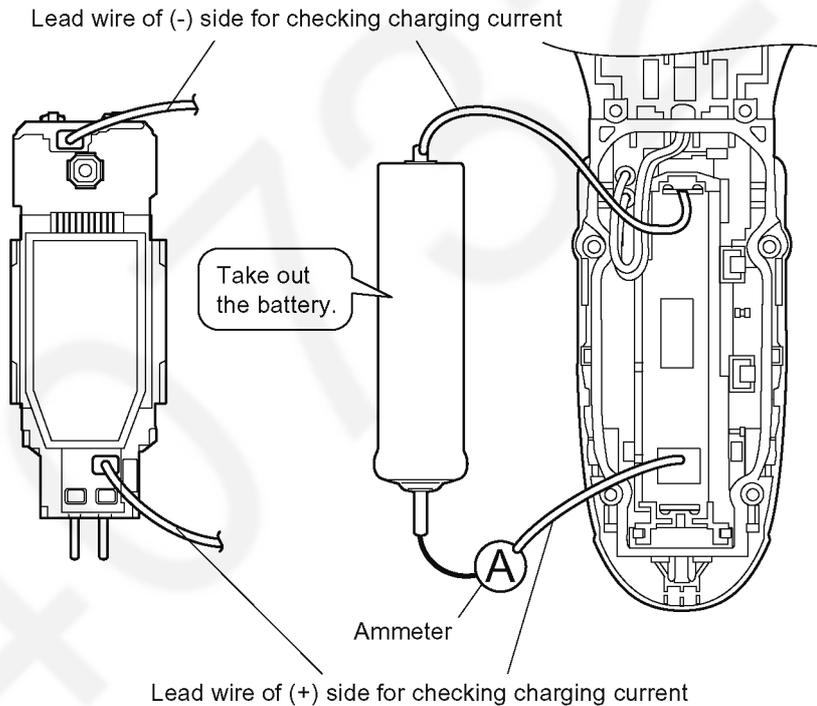
- Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a soldering iron with temperature control and adjust it to 750 ± 20°F (400 ± 10°C). In case of using high temperature soldering iron, please be careful not to heat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

2 Specifications

| | |
|--------------------|---|
| Power source | AC 100-240V, 50-60Hz (Automatic voltage conversion) |
| Power consumption | Approx. 6W (when charging) |
| Charging time | 1 Hour |
| Shaves per charge | 14 times (3 minutes shave) |
| Measurement | (H)15.7 x (W)6.1 x (D)4.6 cm |
| Weight | 180g |
| Supplied accessory | Soft case |

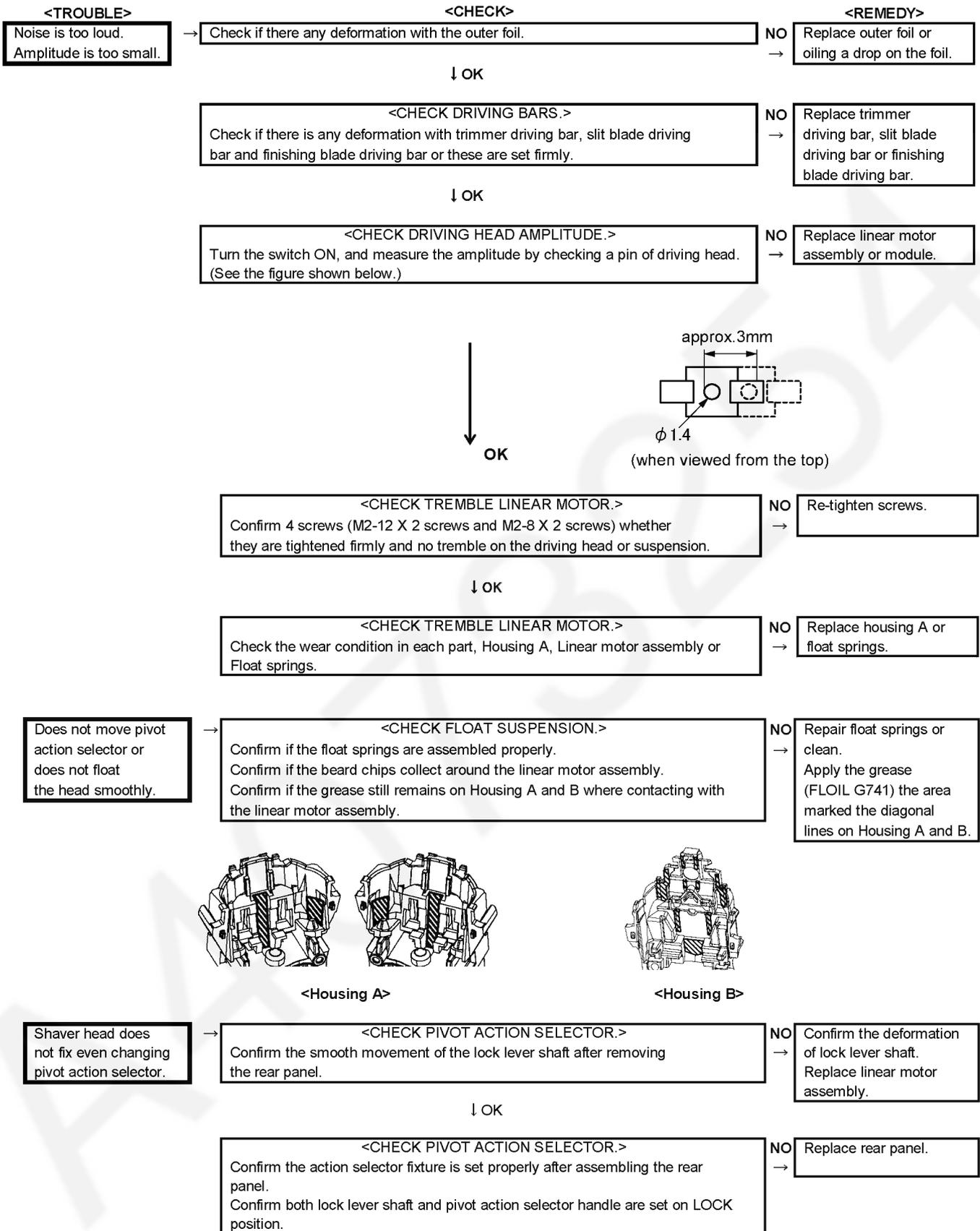
3 Troubleshooting Guide

| <TROUBLE> | <CHECK> | <REMEDY> |
|---|---|---|
| Motor does not rotate. Does not charge. Functions for a moment and stops. | <CHECK CHARGING ADAPTOR.> Supply the rated voltage to the adaptor. And confirm the continuity. OK if it is approx. DC6V between the terminals of the plug at the no-load operation. | NO → Replace charging adaptor. |
| ↓ OK | | |
| | <CHECK RECHARGEABLE BATTERY.> Okay if the voltage of rechargeable battery is more than approximately 3.6V DC between (+) and (-) terminal. | NO → Replace rechargeable battery. |
| ↓ OK | | |
| | <CHECK MODULE.> Wire the main unit returned from a customer refer with the following figure, and connect the rated voltage to it by the normal adaptor. When switching ON and OFF, check if motor rotates and the indicator of LCD is lid. Discharge the battery completely and check charging current, if it is more than 600mA when connecting AC power source. | NO → Check the soldering points. ↓ OK Replace module. ↓ OK Replace linear motor assembly. |



NOTE: Once taking the battery out, the shaver is RESET. The shaver must be charged for several seconds first.

NOTE: Completely discharge and then fully charge before returning the shaver to the customer.

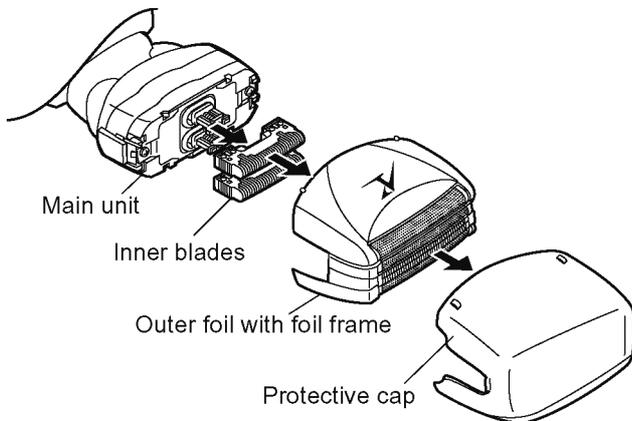


4 Disassembly and Assembly Instructions

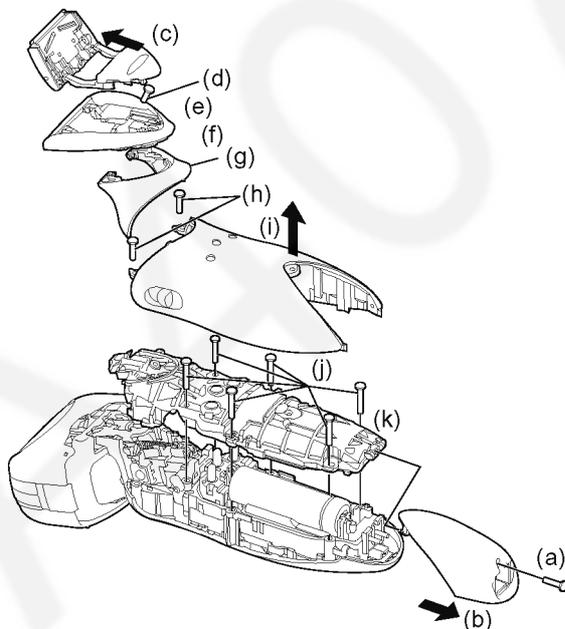
4.1. Disassembly Instructions

Follow the procedure below to disassemble the main unit.

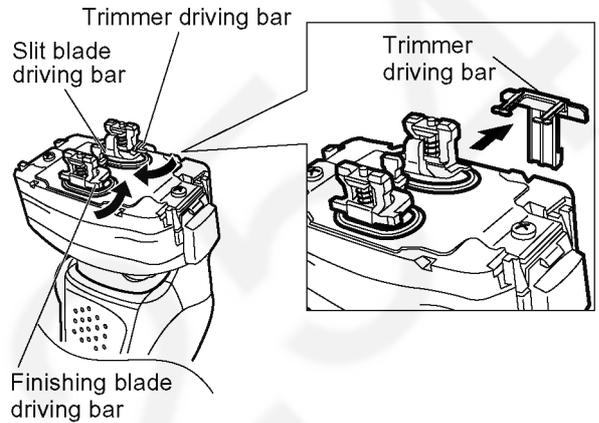
1. Remove the cap, the outer foil and the inner blade.



2. How to disassemble the housing A and B.
 - a. Loosen a screw.
 - b. Remove the bottom cover.
 - c. Slide the trimmer handle up.
 - d. Loosen a screw.
 - e. Slide the trimmer handle down.
 - f. Remove the trimmer sliding downward.
 - g. Remove the upper rear panel.
 - h. Loosen two screws.
 - i. Remove the rear panel
 - j. Loosen six screws.
 - k. Remove the housing B.



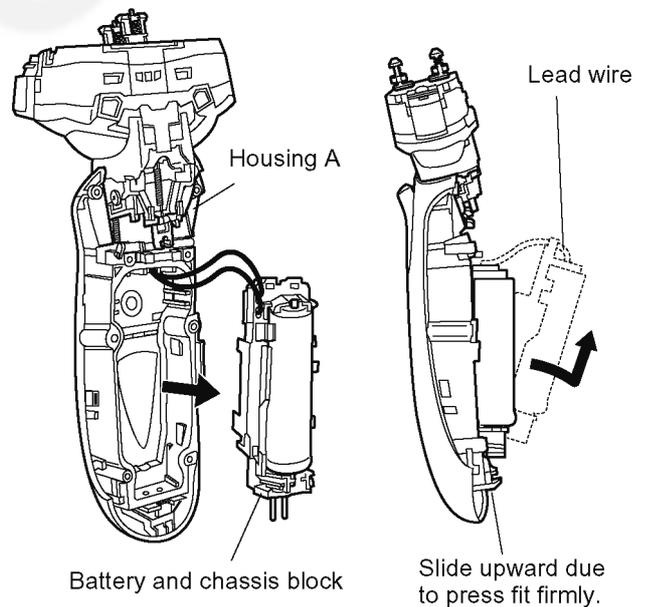
3. Remove the finishing blade driving bar by moving one side of the bar as show the arrow. To remove the trimmer driving bar, press bars outward. Remove the slit blade driving bar by moving one side of the bar as show the arrow.



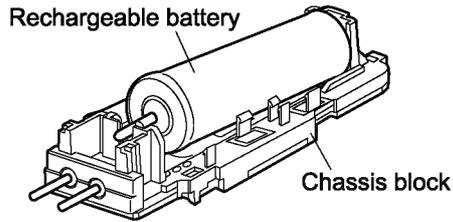
4. Pull up the battery and chassis block from the linear motor side first. Then, slide it upward and take it out from the housing A.

NOTE:

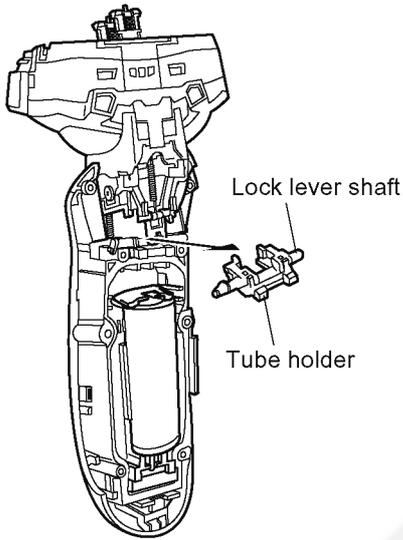
Do not pull the battery and chassis block forcefully due to connecting the linear motor by the lead wires.



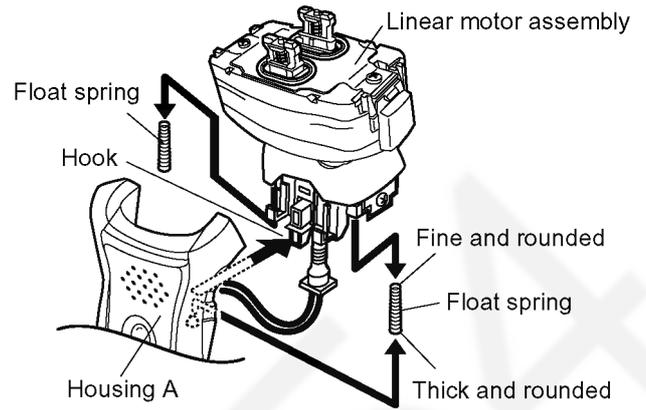
5. Take out the battery from the chassis.



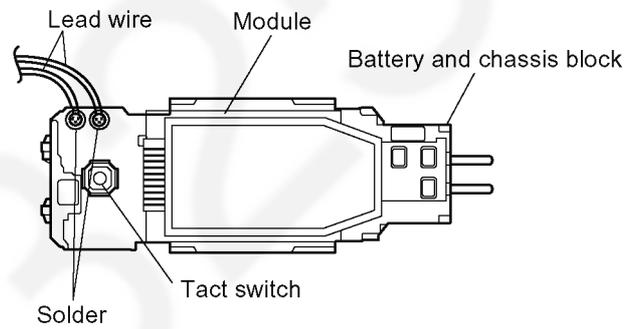
6. Take out the tube holder.



7. Move gently the linear motor assembly down and unhook it and remove the float springs from housing A.



8. Unsolder the lead wires from the module.



4.2. Caution in Assembly

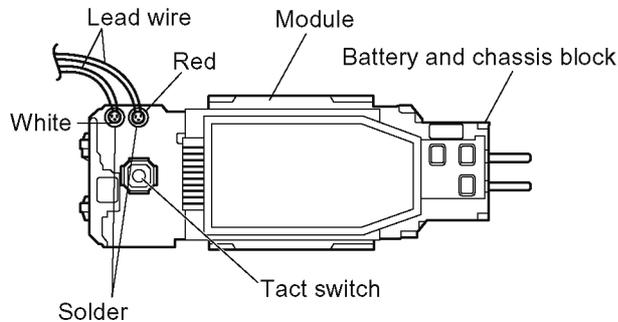
NOTE:

When reassembling, replace the new waterproof seal. Make sure whether there is NO foreign substance sticking around a part covered with waterproof seal.

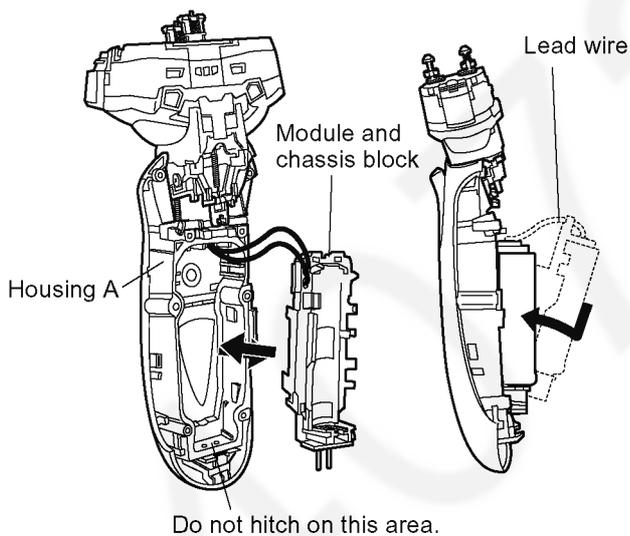
1. Solder the lead wires with the module.

NOTE:

Make sure of the color of lead wires.



2. When inserting the module and chassis block into the housing A, confirm if the module does not get any damage or deformation.



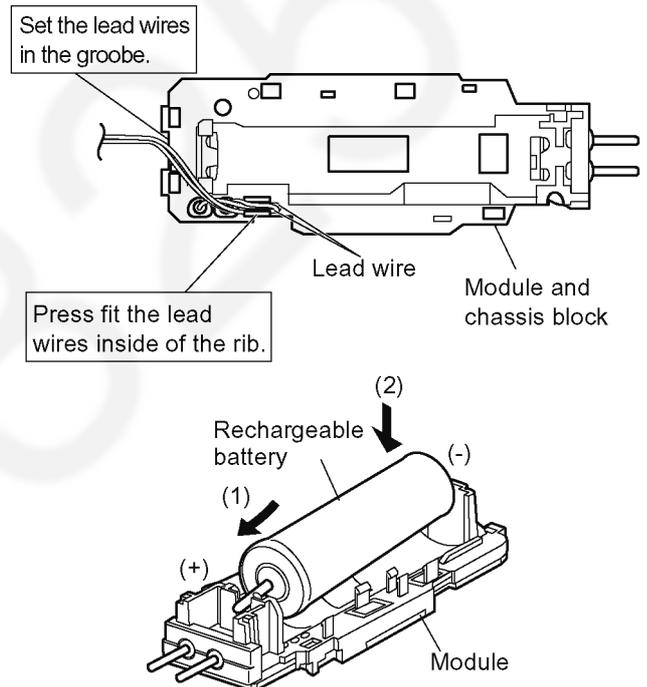
3. Make sure that the lead wires set in position to avoid abnormal noise. Install (+) terminal of battery into the terminal plate at the bottom cover side and firmly set the battery sliding the direction of arrow. Attach (-) terminal of battery.

NOTE:

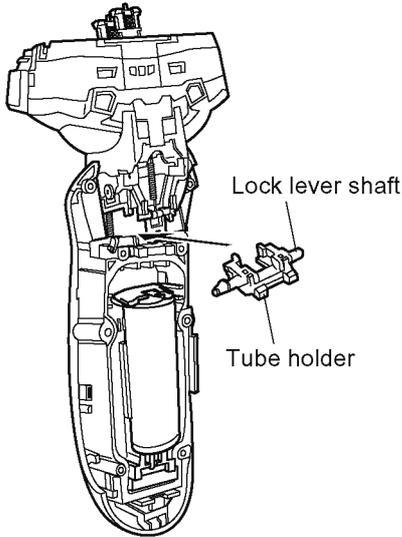
Once taking the battery out, the shaver is RESET. The shaver must be charged for several seconds first.

NOTE:

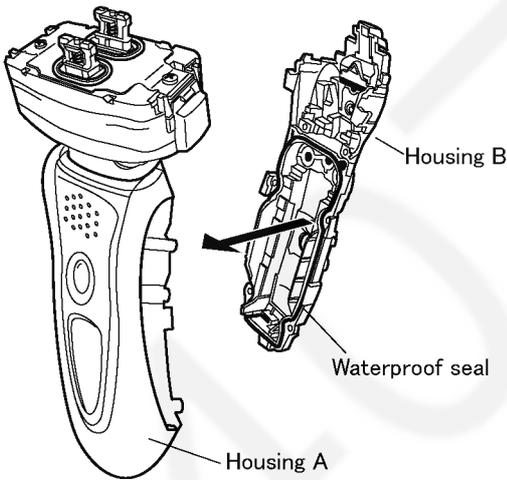
Completely discharge and then fully charge before returning the shaver to the customer.



4. Set the linear motor assembly on the housing A and sliding it upward to hook. Confirm that the lead wire tube fits to the housing A firmly and no foreign substance sticking around. Attach the tube holder with the lock lever shaft to housing A with care of the direction.



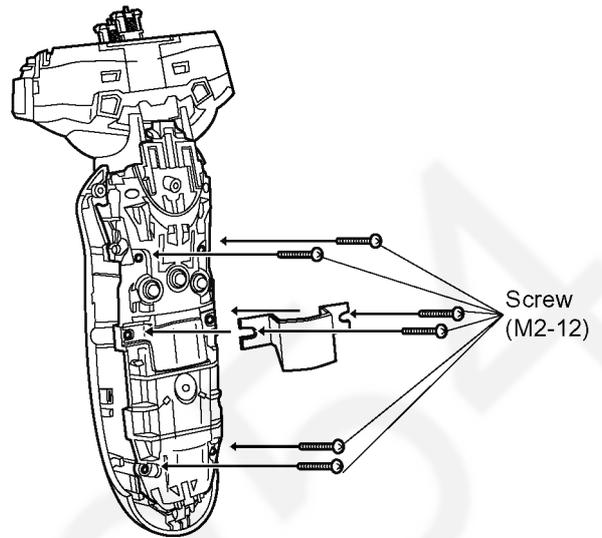
5. When putting the housing A and the housing B together, make sure if the waterproof seal must be fitted properly and no foreign substance sticking around.



6. Tighten six screws.

NOTE:

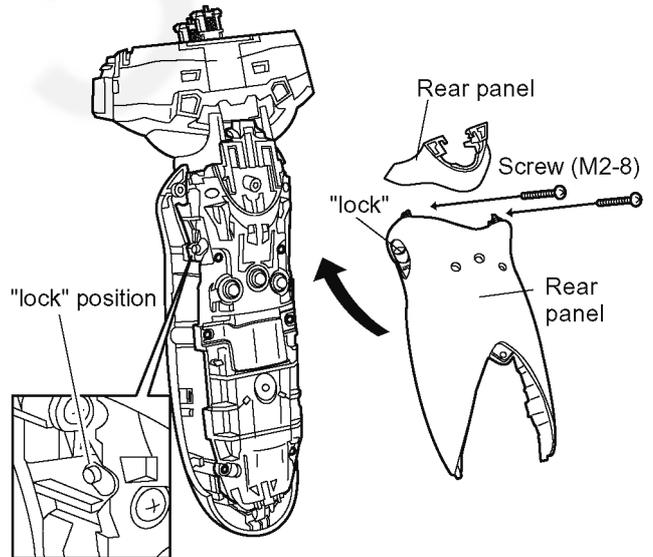
Make sure to attach the connecting plate.



7. Insert two hooks on top of the rear panel into the dent of housing first and attach the rear panel firmly. Set the rear panel with the position "LOCK".

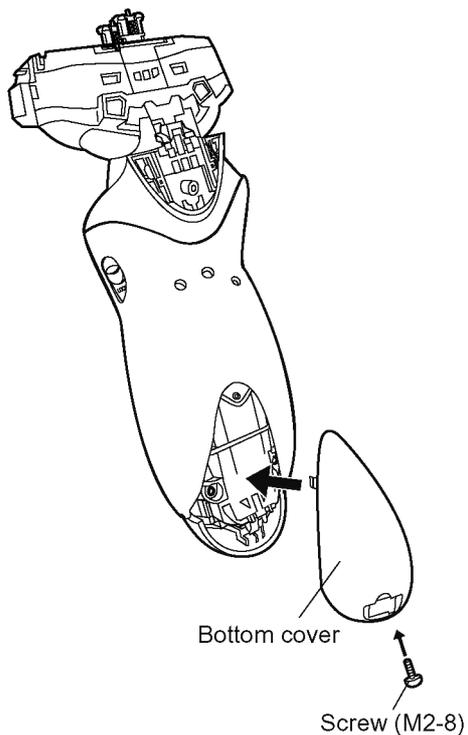
NOTE:

Make sure of the smooth movement of the lock lever shaft.

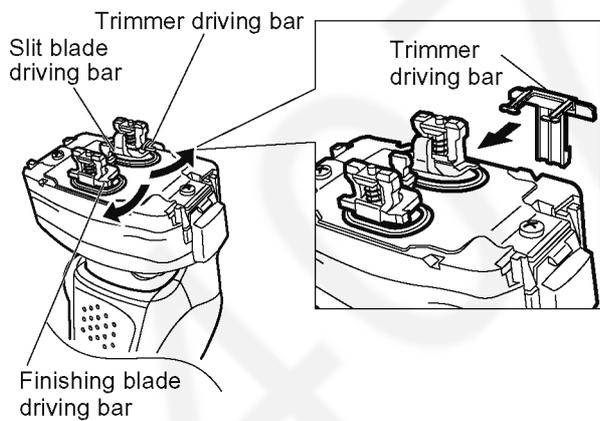


8. Attach the bottom cover and tighten a screw.

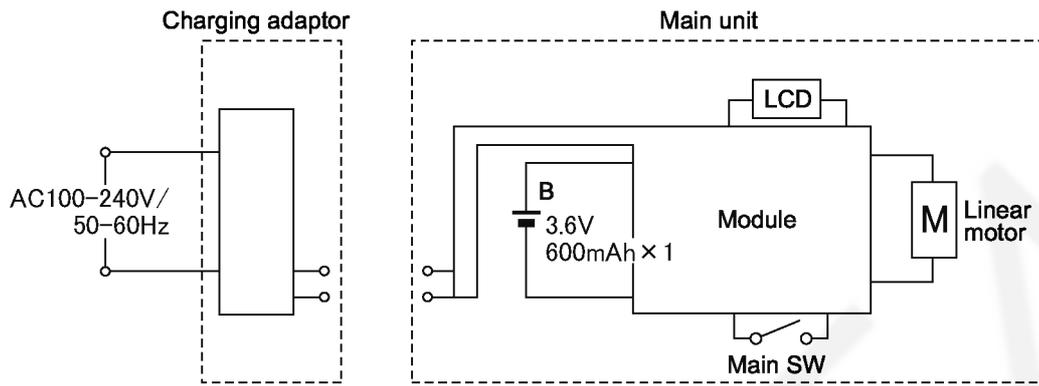
10. Set the trimmer and tighten a screw.



9. Set the finishing blade driving bar and the slit blade driving bar. Place the trimmer driving bar on the slit blade driving bar.

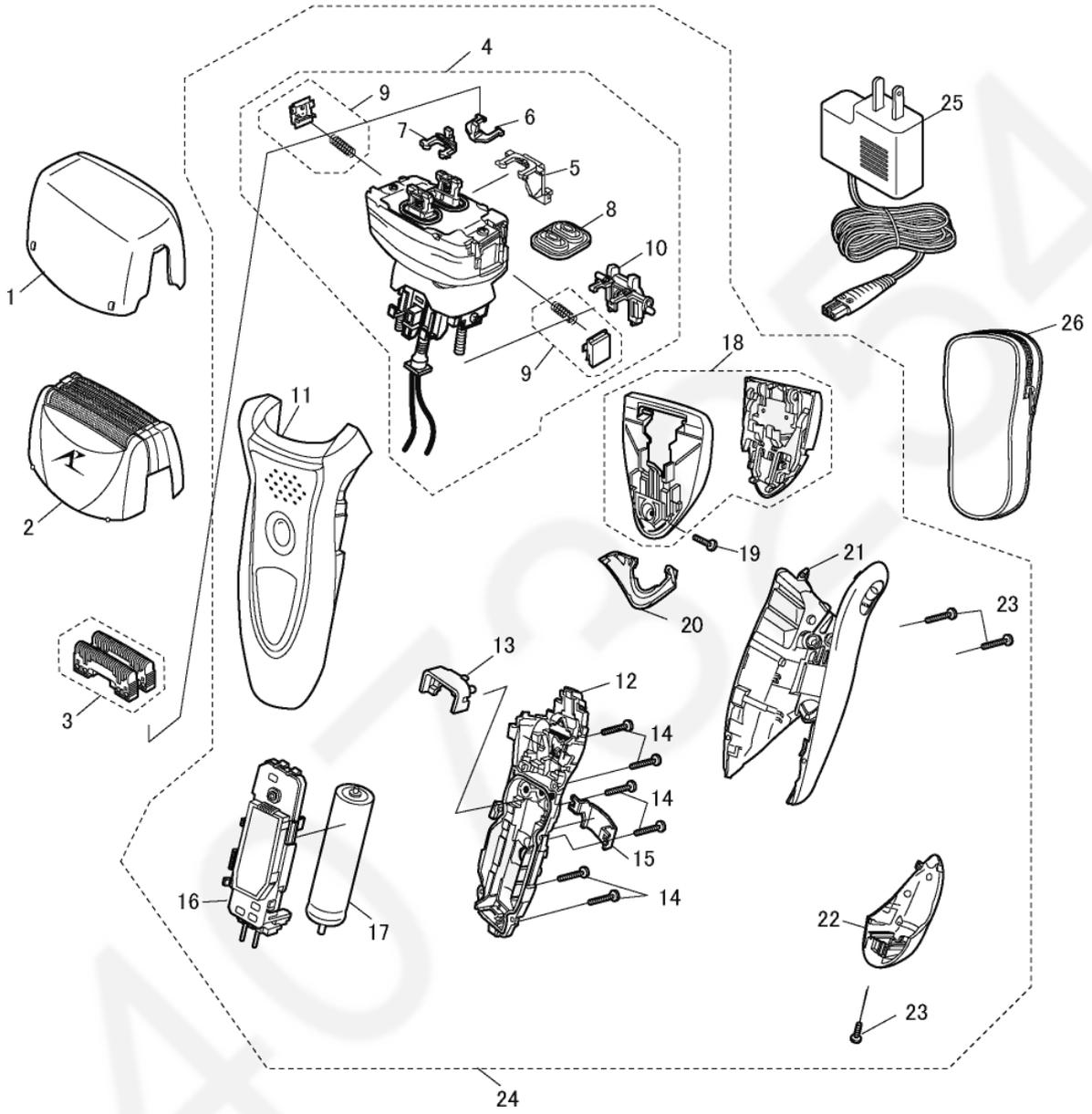


5 Schematic Diagram



6 Exploded View and Replacement Parts List

Model No. : ES8243 Exploded View



Model No. : ES8243 Parts List

| Safety | Ref. No. | Part No. | Part Name & Description | Q'ty | Remarks |
|--------|----------|--------------|-----------------------------|------|---------------|
| | 1 | WES8243X7158 | PROTECTIVE CAP | 1 | |
| | 2 | WES9163PC | OUTER FOIL | 1 | |
| | 3 | WES9068PC | INNER BLADE | 1ST | |
| | 4 | WES8259L1007 | LINEAR MOTOR ASSEMBLY | 1 | |
| | 5 | WES8258L1087 | TRIMMER DRIVING BAR | 1 | |
| | 6 | WES8258L1077 | SLIT BLADE DRIVING BAR | 1 | |
| | 7 | WES8258L1177 | FINISHING BLADE DRIVING BAR | 1 | |
| | 8 | WES8258L0327 | WATERPROOF RUBBER | 1 | |
| | 9 | WES8258K3267 | FOIL RELEASE BUTTON | 2 | (2PCS/PK) |
| | 10 | WES8258L0537 | TUBE HOLDER | 1 | |
| | 11 | WES8243K3058 | HOUSING A | 1 | |
| | 12 | WES8258H3067 | HOUSING B | 1 | |
| | 13 | WES8255L0497 | REAR COVER | 1 | |
| | 14 | WES8176L6007 | P TIGHT SCREW | 6 | (M2-12) |
| | 15 | WES8238L0487 | CONNECTING PLATE | 1 | |
| | 16 | WES8243L2128 | MODULE | 1 | |
| | 17 | WES8163L2509 | RECHARGEABLE BATTERY | 1 | (LM-ION TYPE) |
| | 18 | WES8259K1507 | TRIMMER | 1 | |
| | 19 | WES8238L6007 | P TIGHT SCREW | 1 | (M2-6) |
| | 20 | WES8259K3857 | REAR PANEL (UPPER) | 1 | |
| | 21 | WES8258K3367 | REAR PANEL | 1 | |
| | 22 | WES8243K3128 | BOTTOM COVER | 1 | |
| | 23 | WES8176L6057 | TAPPING SCREW | 3 | (M2-8) |
| | 24 | WES8243K3038 | BODY BLOCK | 1 | |
| | 25 | WES8228K7658 | CHARGING ADAPTOR | 1 | (A-2 PLUG) |
| | 26 | WES8259K7018 | SOFT CASE | 1 | |
| | - | WES8243K8008 | INDIVIDUAL BOX | 1 | |
| | - | WES8243K8108 | OPERATING INSTRUCTIONS | 1 | |