Service Manual

Wet/Dry Rechargeable Shaver **ES4025-A3**



SPECIFICATIONS

Power source AC100-120 / 220-240V, 50-60Hz

Power consumption 3VA

Motor voltage 1.2V DC

Charging time 8-hours

Shaves per charge 7 times (3minutes shave)

Measurement (H)14.7 X (W)5.7 X (D)4.5 cm

Weight 160g

Supplied accessories Soft case

Cleaning brush

⚠ WARNING

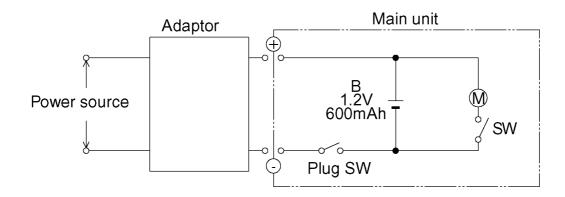
This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should 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.

CONTENTS

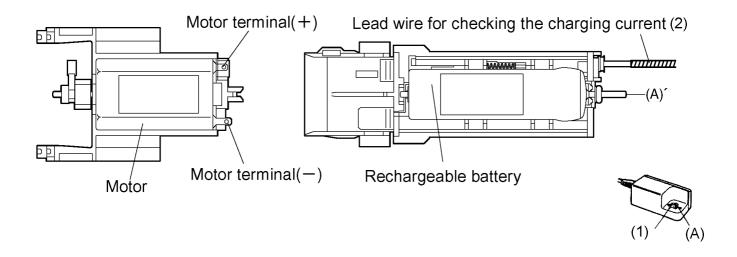
Page	Page
1 SCHEMATIC DIAGRAM2	5 TROUBLESHOOTING GUIDE
2 WIRING CONNECTION DIAGRAM2	6 EXPLODED VIEW
3 DISASSEMBLY INSTRUCTIONS3	7 REPLACEMENT PARTS LIST
4 CAUTION IN ASSEMBLY 6	



1 SCHEMATIC DIAGRAM



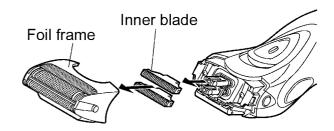
2 WIRING CONNECTION DIAGRAM



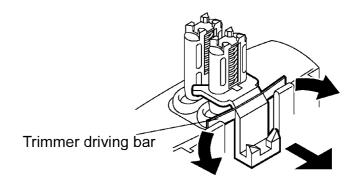
3 DISASSEMBLY INSTRUCTIONS

Follow the procedure below to disassemble the main unit.

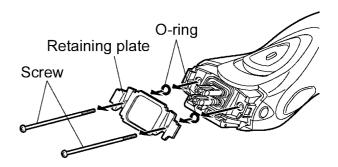
1. Remove the cap, the outer foil with foil frame and the inner blade.



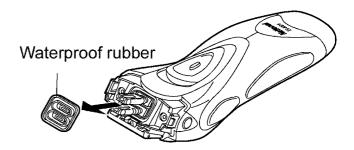
2. To remove the trimmer driving bar, press bar outward.



3. Loosen two screws and the retaining plate. Make sure to take two O-rings out.

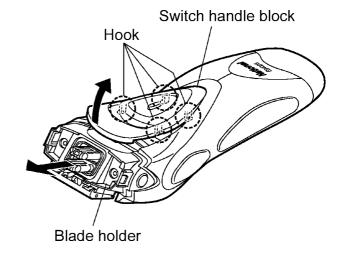


4. Remove the waterproof rubber.

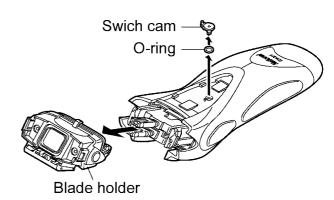


5. Take out the switch block lifting the blade holder slightly up.

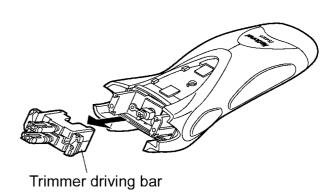
NOTE: Make sure not to break the four parts of hooks on the switch handle.



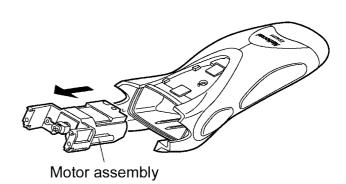
6. Take out the switch cam, o-ring and the blade holder block.



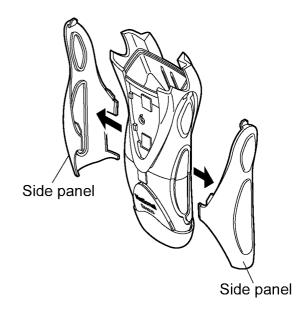
7. Remove the driving head.



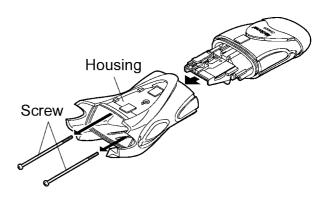
8. Take out the motor holder.



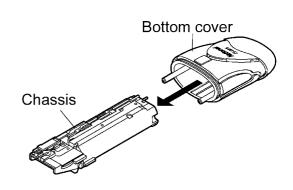
9. Take out the side panels.



10. Loosen two screws and remove the housing.



11. Take out the chassis block.



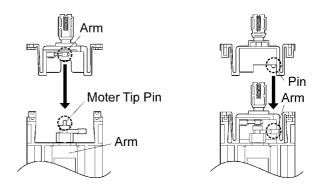
4 CAUTION IN ASSEMBLY

NOTE: When reassembling, replace the new waterproof rubber.

Make sure whether there is NO foreign substance sticking around a part covered with water seal.

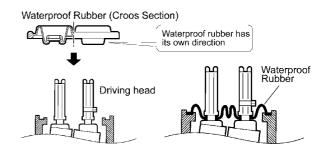
4.1. Driving Head

Insert a motor tip pin into the hole of driving head and install driving head in chassis.



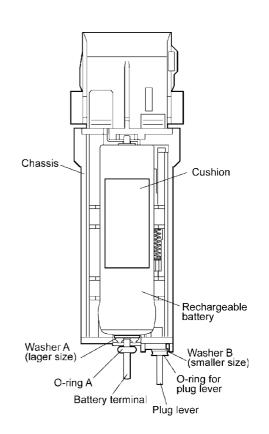
4.2. Waterproof Rubber

The waterproof rubber must be fitted the right way around. Install as shown in figure by inserting firmly to the set position.



4.3. Battery/Plug lever

Make sure of the position for O-ring and washer.



TROUBLESHOOTING GUIDE

(Refer to WIRING CONNECTION DIAGRAM)

<TROUBLE> Motor does not rotate. Does not charge.

<CHECK.>

<REMEDY> <CHECK CHARGING ADAPTOR.>

Connect to rated voltage. OK if it is approximately DC 1.5-3.0V between (1) and (A). Check if there is any deformation inside of terminals on the adaptor or the condition putting an unit into the adaptor firmly.

NO Replace charging → adaptor.

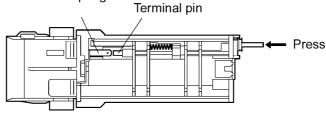
↓ oк

<CHECK CONTACT CONDITIONS OF SWITCH.>

Check for proper contact between negative contact spring and terminal pin when terminal pin is depressed.

NO Repair contact of negative contact spring.

Negative contact spring

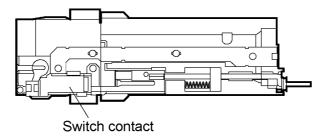


↓ ok

<CHECK SWITCH.>

Check contacts of switch.

NO Repair contact and replace chassis assembly.



↓ oк

<CHECK MOTOR.>

Okay if motor rotates when DC 1.2V is applied to (+) and (-) terminals.

NO Replace motor.

↓ oк

<CHECK RECHARGEABLE BATTERY.>

Okay if the voltage of rechargeable battery is more than approximately 1.2V DC between (+) and (-) terminals

NO Replace rechargeable

battery.

↓ ok

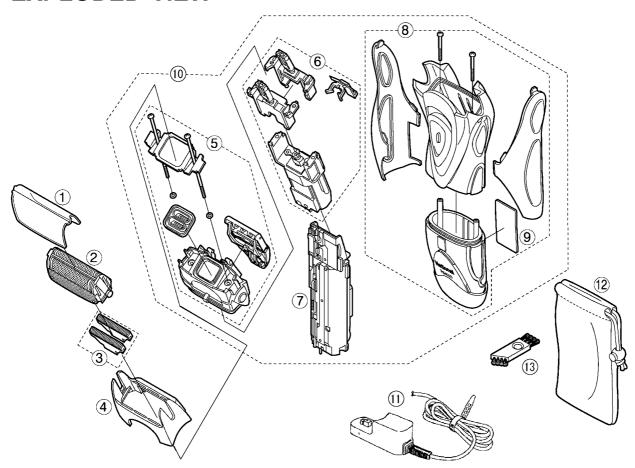
<CHECK CHARGING CURRENT.>

Connect the lead wire (2) to the charging adaptor (1) to measure the charging current across (A) - (A'). OK if it is 160 ± 20mA. (Refer WIRING CONNECTION DIAGRAM.)

NO Replace charging adaptor.

7

6 EXPLODED VIEW



7 REPLACEMENT PARTS LIST

NOTE:

- *A=available as an optional accessory
- *B=only available as set
- *C=available individually

Ref. No. Part No. 1 WES4025X7158 PR	Part No. Part Name & Description	Remarks			Per Unit	
	PROTECTIVE CAP			(BG)	1	
2	WES9837E	OUTER FOIL				1
3	WES9850E	INNER BLADE	*B			2
4	WES4025S0048	FOIL FRAME			(BG)	1
5	WES4025A0008	BLADE HOLDER ASSEMBLY			(BG)	1
6	WES4025L1008	MOTOR ASSEMBLY			(BG)	1
7	WES4025L0779	CHASSIS ASSEMBLY			(BG)	1
8	WES4025S3059	HOUSING			(BG)	1
8	WES4025S3050	HOUSING		only for Hong Kong	(BG)	1
8	WES4025S3051	HOUSING		only for Taiwan	(BG)	1
9	WES4025S3319	NAME PLATE			(BG)	1
9	WES4025S3310	NAME PLATE		only for Hong Kong	(BG)	1
9	WES4025S3311	NAME PLATE		only for Taiwan	(BG)	1
10	WES4025S3039	BODY BLOCK			(BG)	1
10	WES4025S3030	BODY BLOCK		only for Hong Kong	(BG)	1
10	WES4025S3031	BODY BLOCK		only for Taiwan	(BG)	1
11	WES365H7663	CHARGING ADAPTOR		C-2 Plug	(BG)	1
11	WES4025A7662	CHARGING ADAPTOR		A-2 Plug	(BG)	1
11	WES4025A7671	CHARGING ADAPTOR		Korean Plug	(BG)	1
12	WES7025K7007	SOFT CASE			(BG)	1
13	WES861B7057	CLEANING BRUSH				1
-	WES4025S8008	INDIVIDUAL BOX			(BG)	1
-	WES4025S8009	INDIVIDUAL BOX		only for Hong Kong	(BG)	1
-	WES4025S8010	INDIVIDUAL BOX		only for Taiwan	(BG)	1
-	WES4025S8109	OPERATING INSTRUCTIONS			(BG)	1
-	WES4025S8100	OPERATING INSTRUCTIONS		only for Taiwan	(BG)	1