

Service Manual

Hair Styler

Model No. EH-KA11

Asia
Middle East



⚠ 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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Panasonic

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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		110V 60Hz *	220V 50-60Hz	230V 50-60Hz	240V 50-60Hz
Power consumption	Function 3	600W	550W	600W	650W
	Function 2	450W	400W	450W	480W
	Function 1	35W	65W	70W	76W
Air volume		0.46 m ³ /min			
Air flow temperature		120 ° C (in case of room temperature 30 ° C)			
Measurement		48.0 (W) x 195.0 (D) x 48.0 (H) mm (Main Body)			
Weight	110V	276g (Main Body)			
	220-240V	320g (Main Body)			
Supplied accessory		Cleaning brush			

* Only available in Taiwan

3 Troubleshooting Guide

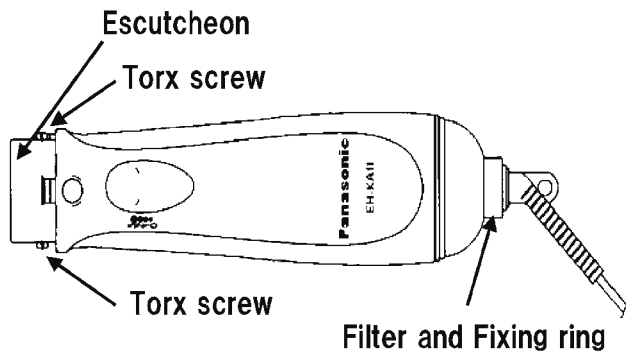
(Refer to SCHEMATIC DIAGRAM and WIRING CONNECTION DIAGRAM.)

<TROUBLE>	<CHECK.>	<REMEDY>
Hot and cold air are not emitted.	→ <CHECK POWER CORD.> Check the conductivity of power cord. ↓ OK	NO → Replace the power cord.
	<CHECK MAIN SWITCH.> Check the conductivity between the terminal C and 3 by setting the main switch at Position 1, and between the terminal C and 2 by setting the main switch at Position 2. Also check the conductivity between the terminal C and 1 by setting the main switch at Position 3. ↓ OK	NO → Replace the main switch.
	<CHECK HEATER BLOCK.> Check the resistance of heater coil (H1) between "2" and both thermal switches at Position 0. 220-240V : The resistance value should be approx. 96.3Ω . 110V : The resistance value should be approx. 20.1Ω . Check the resistance of heater coil (H2) between "1" and "3" at Position 0. 220-240V : The resistance value should be approx. 29.4Ω . 110V : The resistance value should be approx. 6.9Ω . ↓ OK	NO → Replace the heater block.
	<CHECK HEATER BLOCK.> Check the resistance of dropping resistor (Rg) between the yellow lead wire and the black (long) lead wire at Position 0. 220-240V : The resistance value should be approx. 558Ω . 110V : The resistance value should be approx. 194Ω . ↓ OK	NO → Replace the heater block.
	<CHECK MOTOR.> Okay if motor rotates when DC 36V is applied to (+) and (-) terminals.	NO → Replace the motor block.

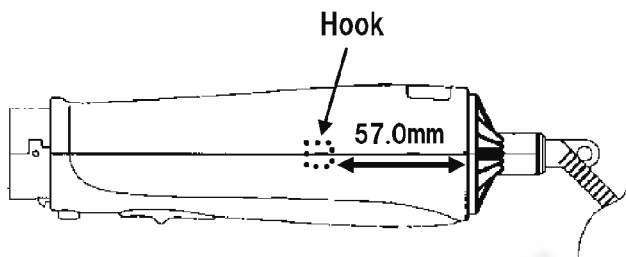
4 Disassembly and Assembly Instructions

4.1. Disassembly Instructions

1. Remove the two Torx screws from the escutcheon, then remove the escutcheon, the filter and the fixing ring.



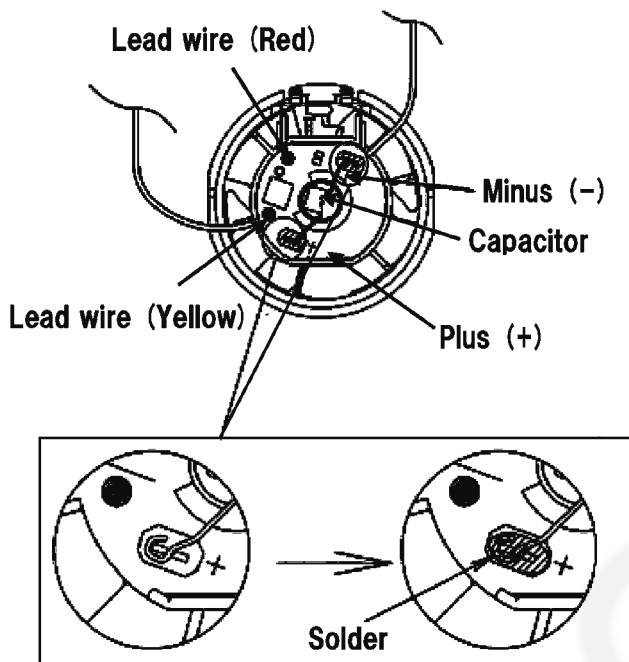
2. Separate the housing A and B by unfastening the hook.



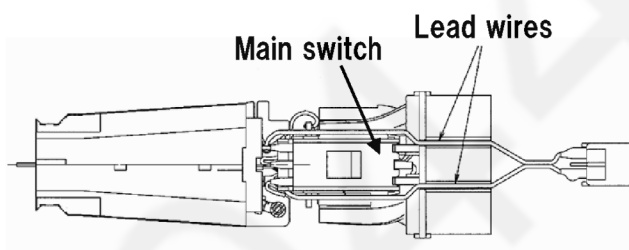
4.2. Caution In Assembly

Refer to WIRING DIAGRAM to solder the wires.

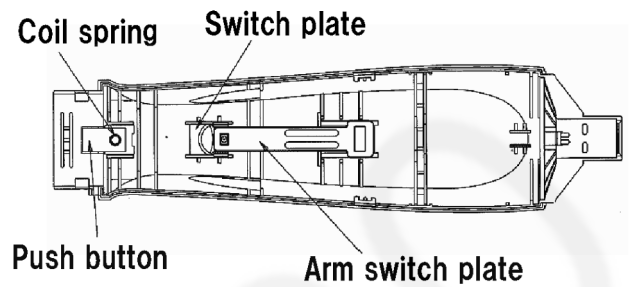
1. Attach the lead wires (red for main switch and yellow for heater) to the rectifier block from bottom. Then install rectifier block on the motor block with capacitor by soldering as shown in Figure.



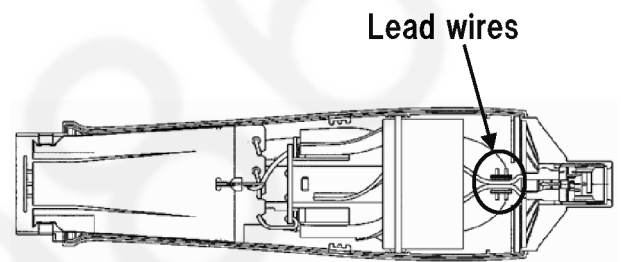
2. Install the main switch on the motor block, and then insert the black lead wires between ribs tightly. Do not allocate the lead wires on the main switch.



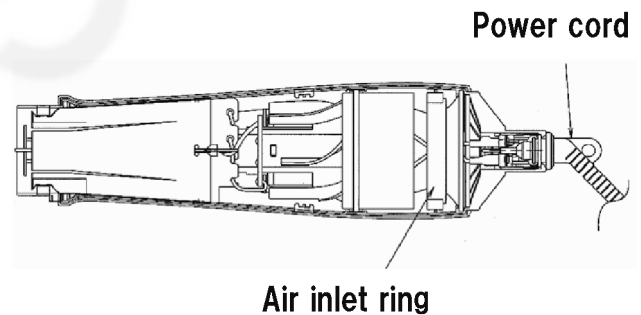
3. Install the push button with coil spring and the arm switch plate with switch plate on the housing B.



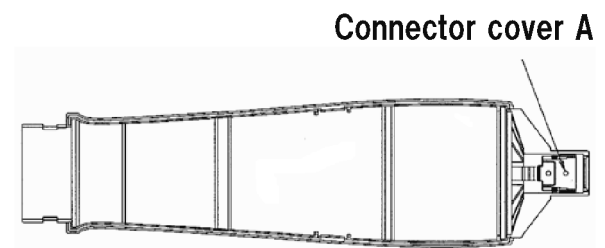
4. Install the heater motor block on the housing B. Then insert the black lead wires between ribs.



5. Install the air inlet ring and power cord on the housing B.



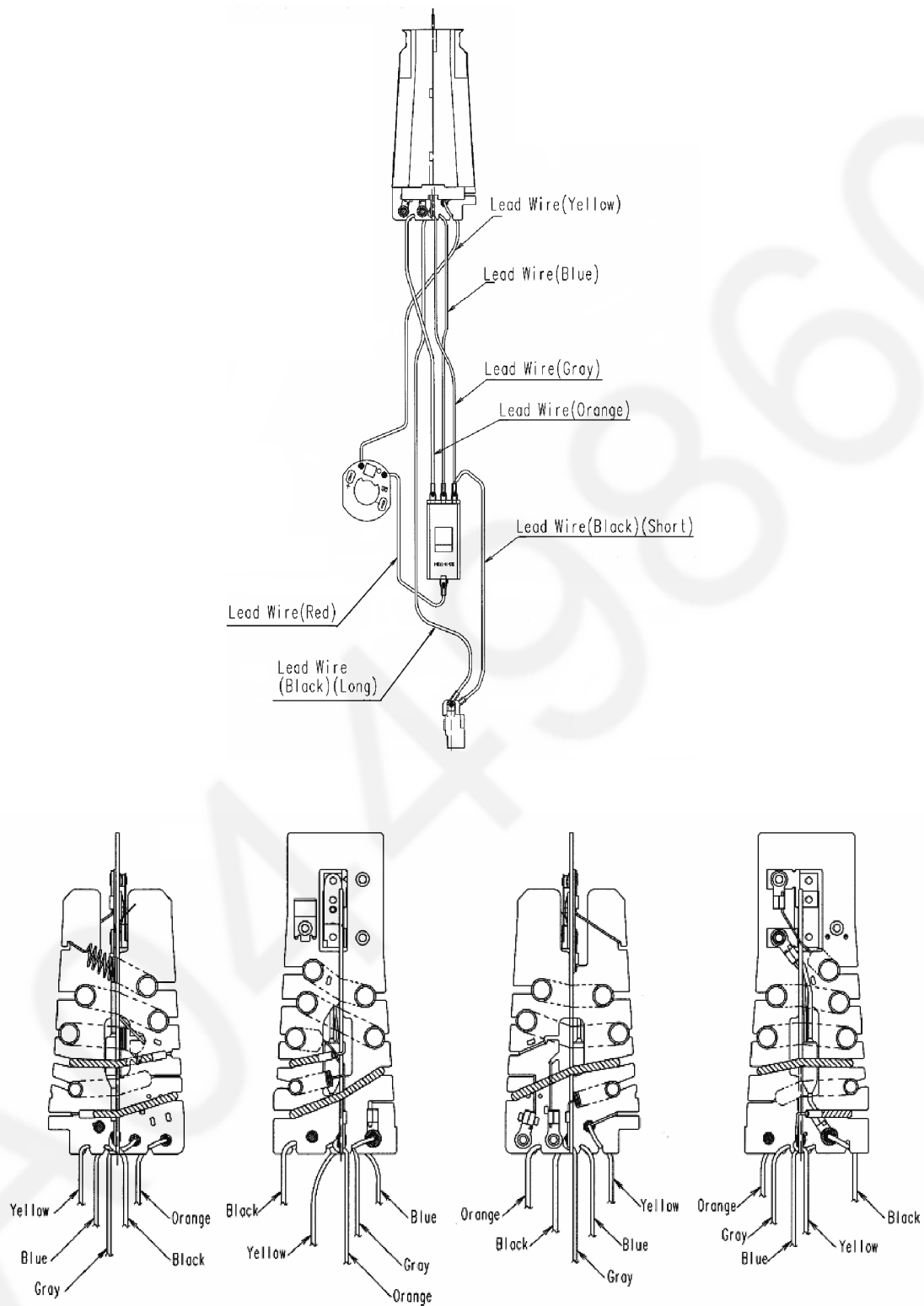
6. Install the connector cover A on the housing A.



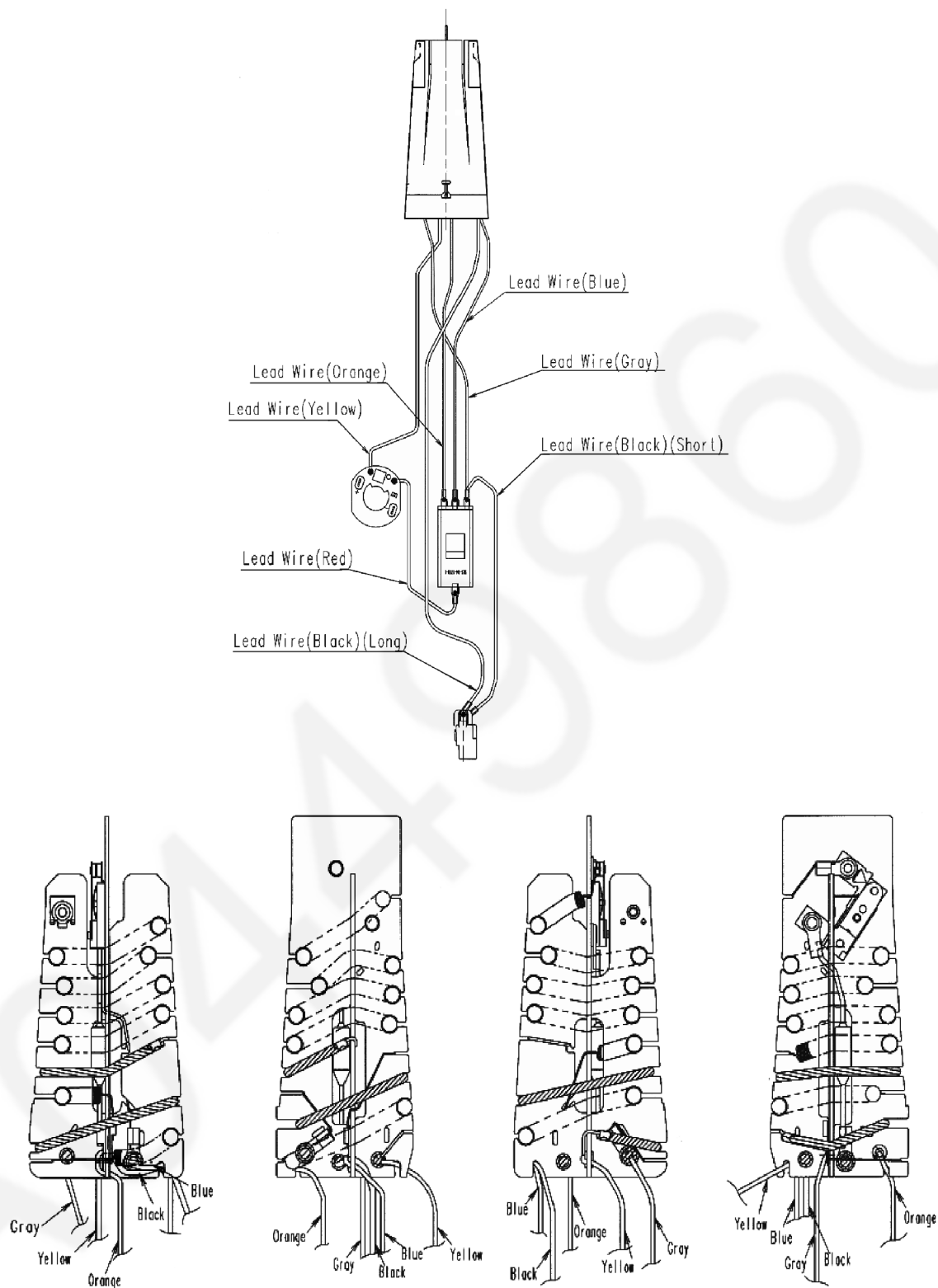
7. Put the housing A and B together.
8. Attach the filter, fixing ring and the escutcheon to the housing.

5 Wiring Connection Diagram

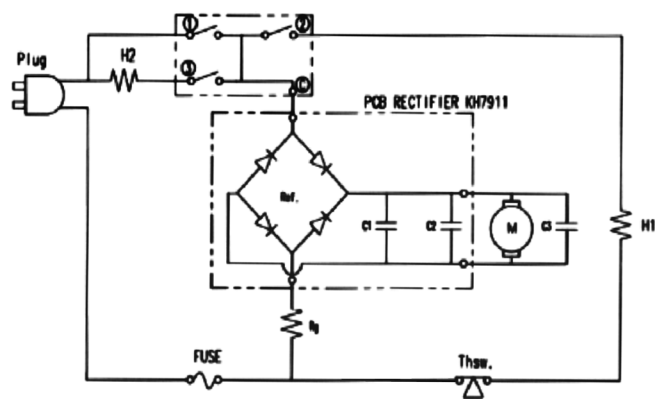
5.1. Wiring Connection Diagram for 110V



5.2. Wiring Connection Diagram for 220-240V

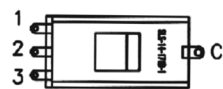


6 Schematic Diagram



Switch Function	1 C	2 C	3 C
0 (off)	X	X	X
1 (cold)	X	X	0
2 (set)	X	0	0
3 (dry)	0	0	0

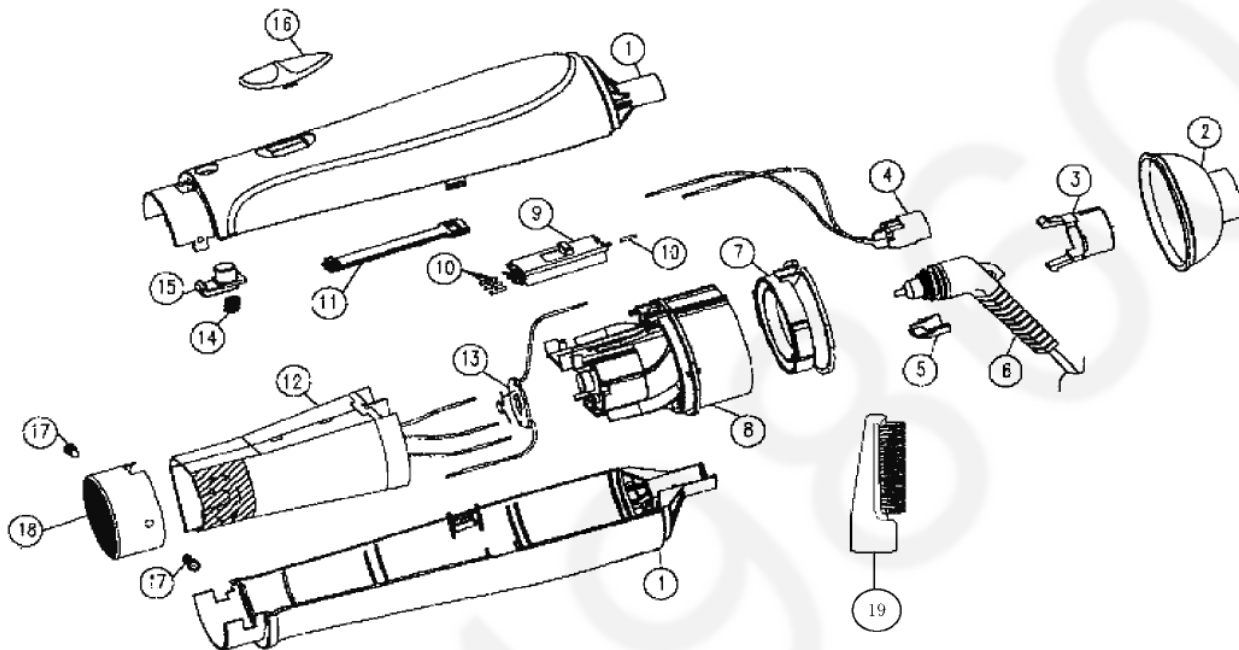
0 = ON
X = OFF



	PART NAME		SPECIFICATION	
			220V-240V	110V
H1	RESISTANCE WIRE A		(96.3)	(20.1)
H2	RESISTANCE WIRE B		(29.4)	(6.9)
Rg	DROPPING RESISTOR		(558)	(194)
C1	KH7911	CAPACITOR	50VDC, 0.1 μF	
C2				
Ref.			RECTIFIER CIRCUIT	800V, 1A
C3	CAPACITOR		50VDC, 0.33 μF	
M	MOTOR		DC36V, 350mA	
Thsw.	THERMO SWITCH		110±5°C	120±5°C
			120±5°C	
Fuse	FUSE		144°C	
Switch	MAIN SWITCH		250V, 10A or 125V, 13A	

7 Exploded View and Replacement Parts List

Model No. : EH-KA11 Exploded View



* All parts are supplied from PEW-Thailand through PLGA.

Model No. : EH-KA11 Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	1	EHKA11HSW1W	HOUSING AB	1	(FOR TAIWAN)
	1	EHKA11HSW2W	HOUSING AB	1	
	1	EHKA11HSW7W	HOUSING AB	1	(FOR KOREA)
	2	EHKA11FTWSW	FILTER	1	(FOR TAIWAN, VIETNAM, INDIA, IRAN)
	2	EHKA11FTWBW	FILTER	1	
	3	EHKA11FRHW	FIXING RING	1	
	4	EHKA11CTBW	CONNECTOR COVER B ASS'Y	1	
	5	EHKA11CTAW	CONNECTOR COVER A	1	
	6	EHKA11PCHA2W	POWER CORD	1	(A-2 PLUG)
	6	EHKA11PCHS3W	POWER CORD	1	(BF-3 PLUG)
	6	EHKA11PC615W	POWER CORD	1	(B-2 PLUG)
	6	EHKA11PC675W	POWER CORD	1	(KS PLUG)
	7	EHKA11AIRTW	AIR INLET RING	1	
	8	EHKA11MB1W	MOTOR ASS'Y	1	(FOR TAIWAN)
	8	EHKA11MB2W	MOTOR ASS'Y	1	
	9	EHKA11MSW	MAIN SWITCH	1	
	10	EHKA11ITBW	INSULATION TUBE	1	(4PC/PK)
	11	EHKA11ASPWW	ARM SWITCH PLATE	1	YELLOW
	12	EHKA11HB1W	HEATER B/K ASS'Y	1	(FOR TAIWAN)
	12	EHKA11HB2W	HEATER B/K ASS'Y	1	
	12	EHKA11HB6W	HEATER B/K ASS'Y	1	(FOR SAUDI ARABIA)
	13	EHKA11RFBW	RECTIFIER ASS'Y BLOCK	1	
	14	EHKA11CSHW	COIL SPRING	1	
	15	EHKA11PBWW	PUSH BUTTON	1	
	16	EHKA11MSPWW	MAIN SWITCH PLATE	1	
	17	EHKA11T2604W	TORX SCREW	2	(M2.6-4)
	18	EHKA11ESW	ESCUTCHEON	1	
	19	EHKA11HTWW	BLOW BRUSH ASS'Y	1	
	-	EHKA1113501W	INDIVIDUAL PACKAGE	1	(FOR TAIWAN)
	-	EHKA1161501W	INDIVIDUAL PACKAGE	1	(FOR VIETNAM, INDIA, IRAN)
	-	EHKA1165501W	INDIVIDUAL PACKAGE	1	(FOR MALAYSIA)
	-	EHKA1166501W	INDIVIDUAL PACKAGE	1	(FOR SAUDI ARABIA)
	-	EHKA1167501W	INDIVIDUAL PACKAGE	1	(FOR KOREA)
	-	EHKA1168501W	INDIVIDUAL PACKAGE	1	(FOR SINGAPORE, HONG KONG, KUWAIT)
	-	EHKA11S03UW	INSTRUCTION BOOKLET	1	
	-	EHKA11S09W	FILLER FOR PACKAGE	1	