

Service Manual



(Household) Hair Straightener

Model No. EH-HS99

Middle East

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.

\triangle 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.

TABLE OF CONTENTS

	PAGE
1 Warning	2
2 Specifications	2
3 Troubleshooting Guide	3
4 Disassembly and Assembly instructions	5
5 Wiring Connection Diagram	8
6 Schematic Diagram	9
7 Explode View and Replacement Part List	10

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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) a higher. Please use soldering iron with temperature control and adjust it to 700±20°F (370 ± 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

Model	EH-HS99	
Sales Area	Middle East	
Power source /	AC 100-120V ~ 50-60Hz	38.0W (Max.41.8W)
Power consumption	AC 220-240V ~ 50-60Hz	
Iron Plate temperature	150-170-180-200-230°C (5 level settings)	
Body size (mm.)	286×33×44	
Weight	S3 Plug (SF629)	450g
Cord length	S3 Plug (SF629)	1.7m

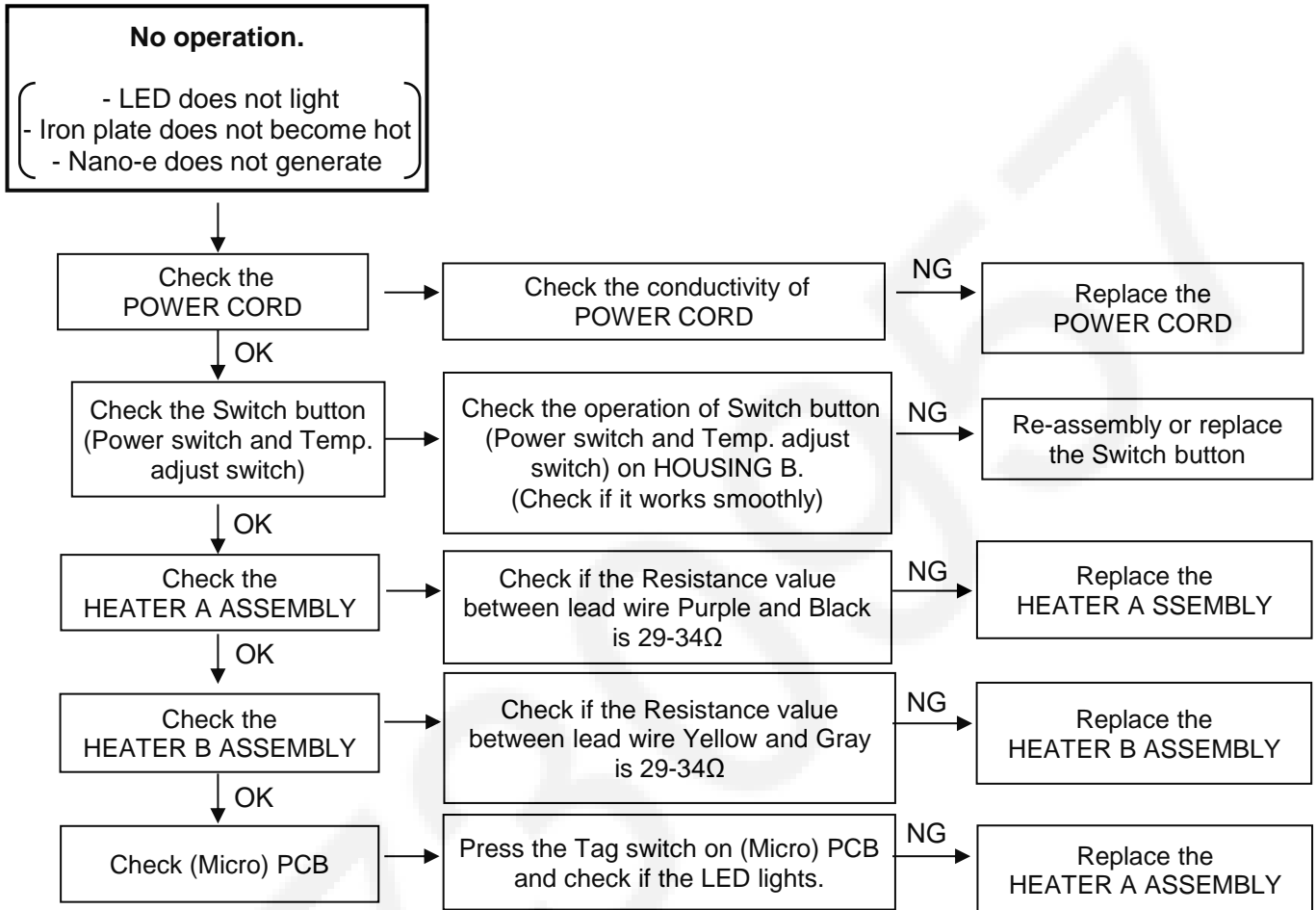
3.TROUBLESHOOTING GUIDE

Refer to WIRING CONNECTION DIAGRAM.

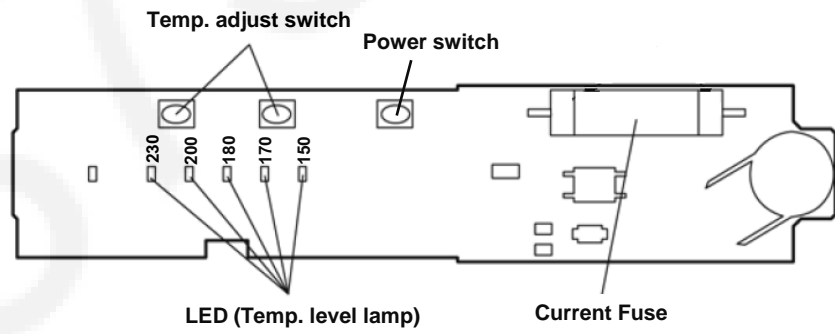
< CHECKING PROCEDURE >

< CHECKING METHOD >

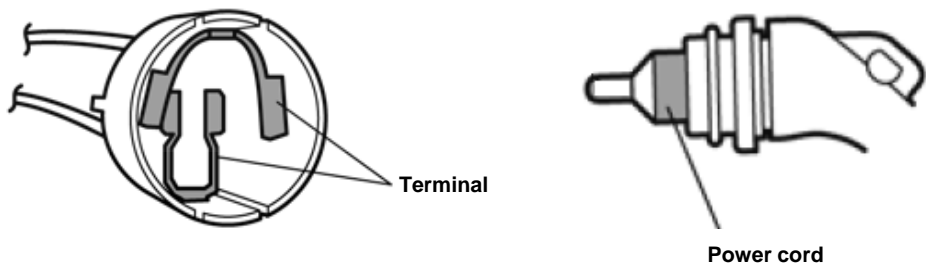
< REMEDY >



(Micro) PCB



Before insert the POWER CORD to CONNECTOR COVER ASSEMBLY, must check if the terminal inside the CONNECTOR COVER ASSEMBLY is deformed.



< CHECKING PROCEDURE >

< CHECKING METHOD >

< REMEDY >

LED does not light → Replace the HEATER A ASSEMBLY

Iron plate (Heater) does not become hot but LED lights.

Check the HEATER A ASSEMBLY

Check if the Resistance value between lead wire Purple and Black is 29-34Ω

NG

Replace the HEATER A ASSEMBLY

Check the HEATER B ASSEMBLY

Check if the Resistance value between lead wire Yellow and Gray is 29-34Ω

NG

Replace the HEATER B ASSEMBLY

Temp. does not change when press the Temp. adjust switch

Check the Switch button (Power switch and Temp. adjust switch)

Check the operation of Switch button (Power switch and Temp. adjust switch) on HOUSING B. (Check if it works smoothly)

NG

Re-assembly or replace the Switch button

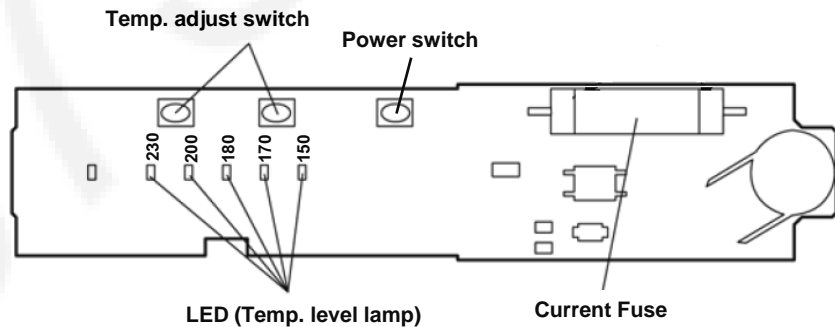
Check (Micro) PCB

Press the Tag switch on (Micro) PCB and check if the LED lights.

NG

Replace the HEATER A ASSEMBLY

(Micro) PCB



Nano-e does not generate

Check the working condition of Nano-e (check if it has abnormal noise at Nano-e hole)

Clean the Nano-e hole

NG

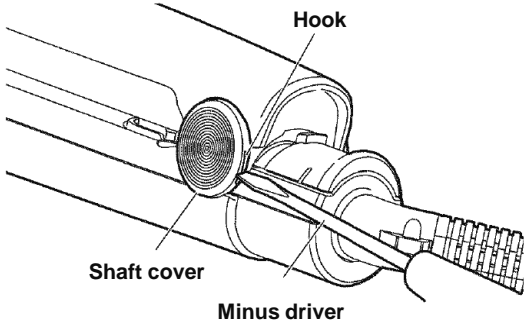
Replace the HEATER B ASSEMBLY

4. Disassembly and Assembly instructions

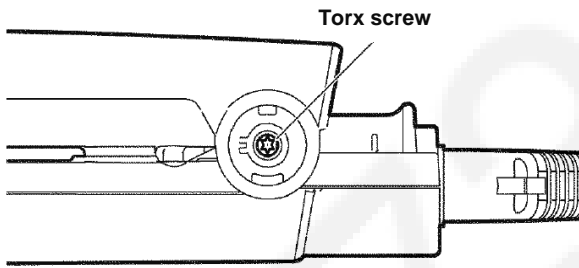
4.1 Disassembly instruction

(1) Remove SHAFT COVER from Main body by slotted screw driver (Minus driver).

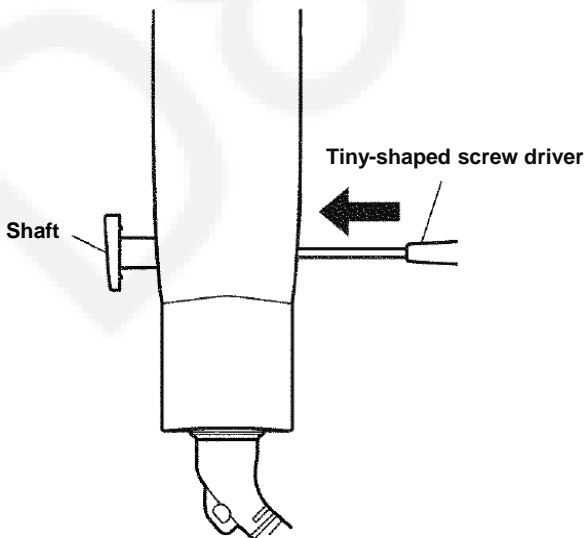
NOTE: Use NEW SHAFT COVER once disassembling due to easily breakage or looseness of hook.



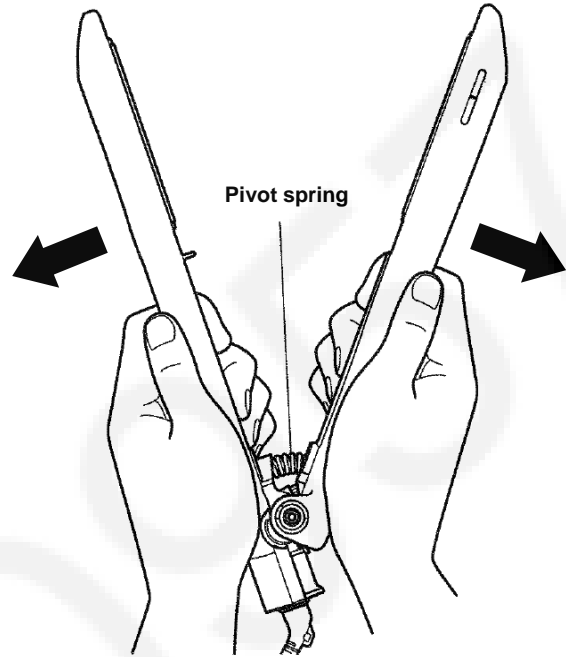
(2) Remove TORX SCREW at SHAFT position by screw driver (Star driver).



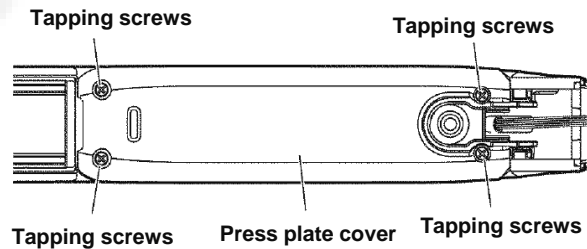
(3) Remove SHAFT out by tiny-shaped screw driver and pull it out from Main body



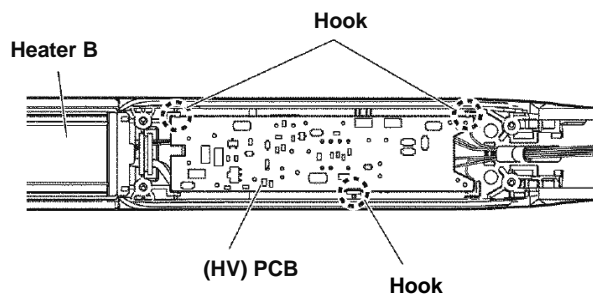
(4) Remove PIVOT SPRING by gripping and pull it out from the Main body.



(5) Remove TAPPING SCREWS at PRESS PLATE COVER by screw driver (Plus driver) and pull out PRESS PLATE COVER from Main body.

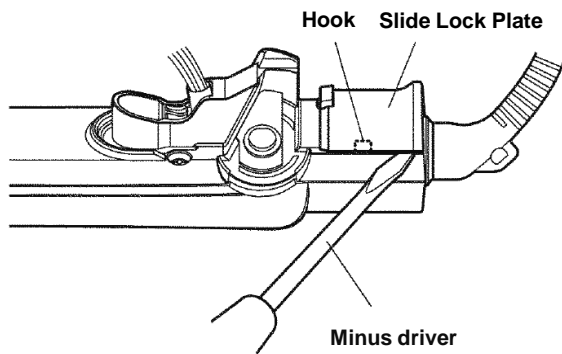


(6) Take off (HV) PCB from hook of PRESS PLATE 3 positions.

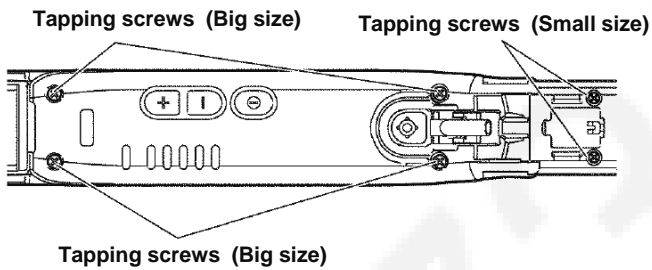


(7) Remove SLIDE LOCK PLATE from Main Body
by slotted screw driver (Minus driver)

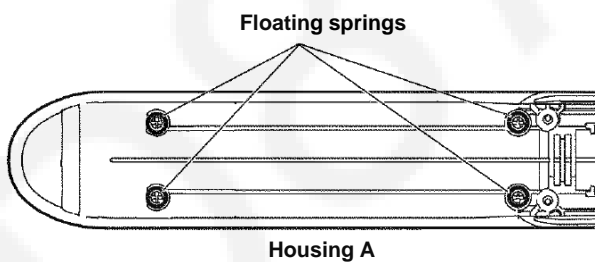
*Insert screw driver to hook inside SLIDE LOCK PLATE.



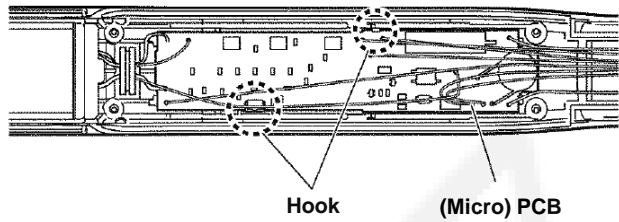
(8) Remove TAPPING SCREWS at HOUSING B
by screw driver (Plus driver) and pull out
HOUSING B from Main body.



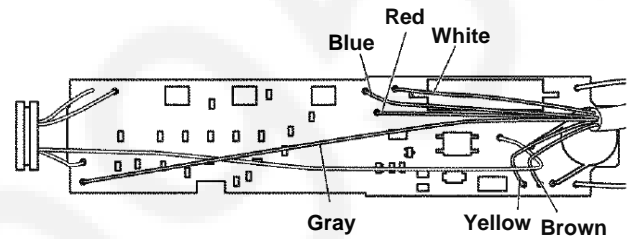
* Be careful not to lose the Floating SPRING 4 pcs on HOUSING



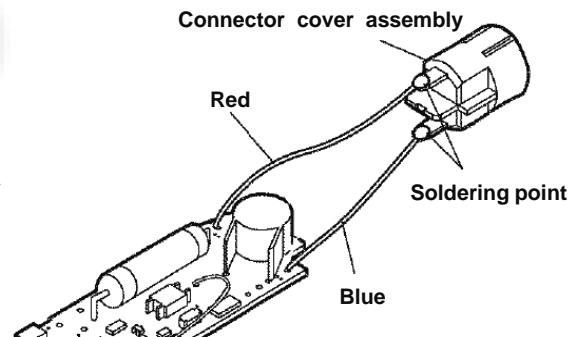
(9) Take off (Micro) PCB from hook of HOUSING A
2 positions.



(10) Remove soldering point for taking off
lead wire 6 positions (Red, Blue, White, Gray,
Yellow, Brown) from (Micro) PCB.



(10) Remove soldering point at Lead wire Red
and Blue for taking off CONNECTOR COVER ASSEMBLY

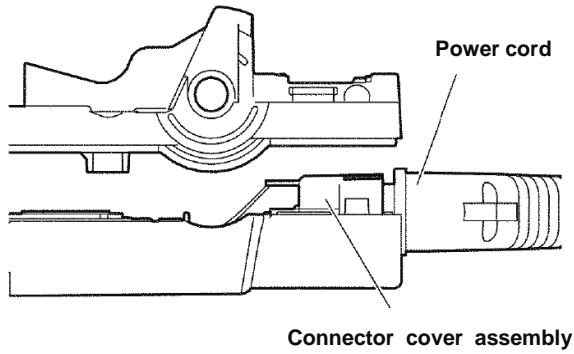


4.2 Assembly Instructions

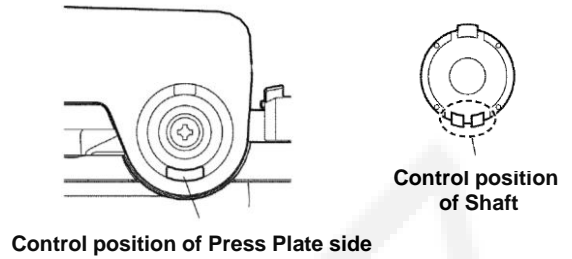
(1) Assembly point of HOUSING A

Check the POWER CORD must be correctly assembled with CONNECTOR COVER ASSEMBLY

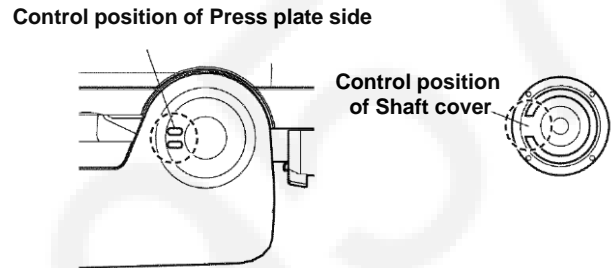
*Apply a little of Grease Floil to Terminal of POWER CORD.



(2) SHAFT fixing point. Have control direction.



(3) SHAFT COVER fixing point. Have control direction.



4.3 Lead wire of HEATER B ASSEMBLY and Circuit arrangement points.

(1) Assembled HEATER B ASSEMBLY with PRESS PLATE by arrangement Lead wire as figure 1.

and must insert all Lead wires pass through the Tube before soldering.

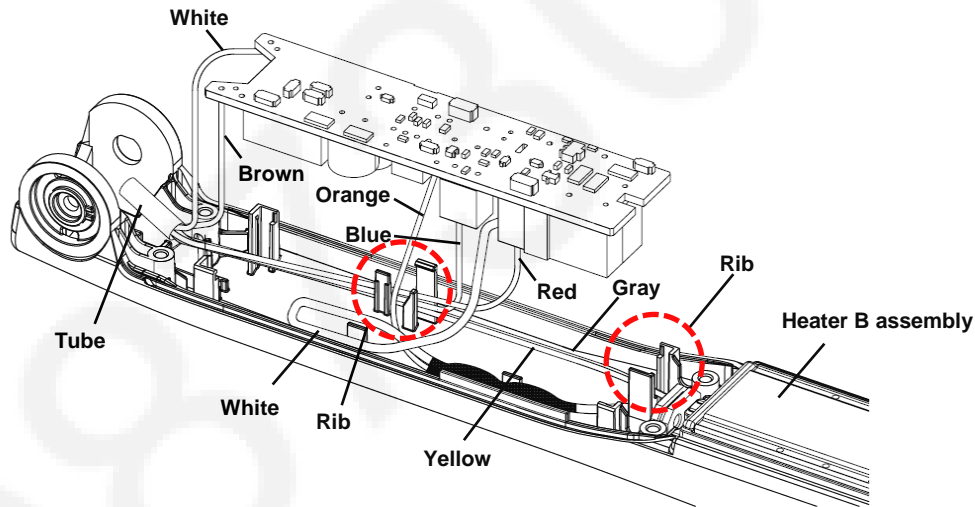


Figure 1.

(2) Assembled HEATER A ASSEMBLY with HOUSING A by arrangement Lead wire as figure 2.

and must insert all Lead wires pass through the Tube before soldering.

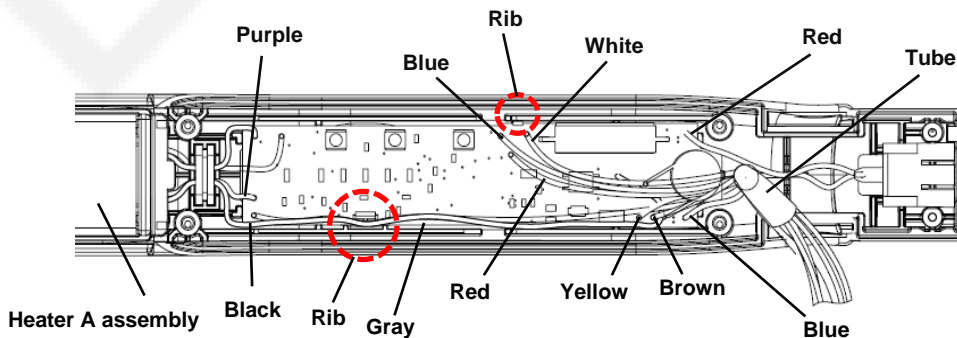


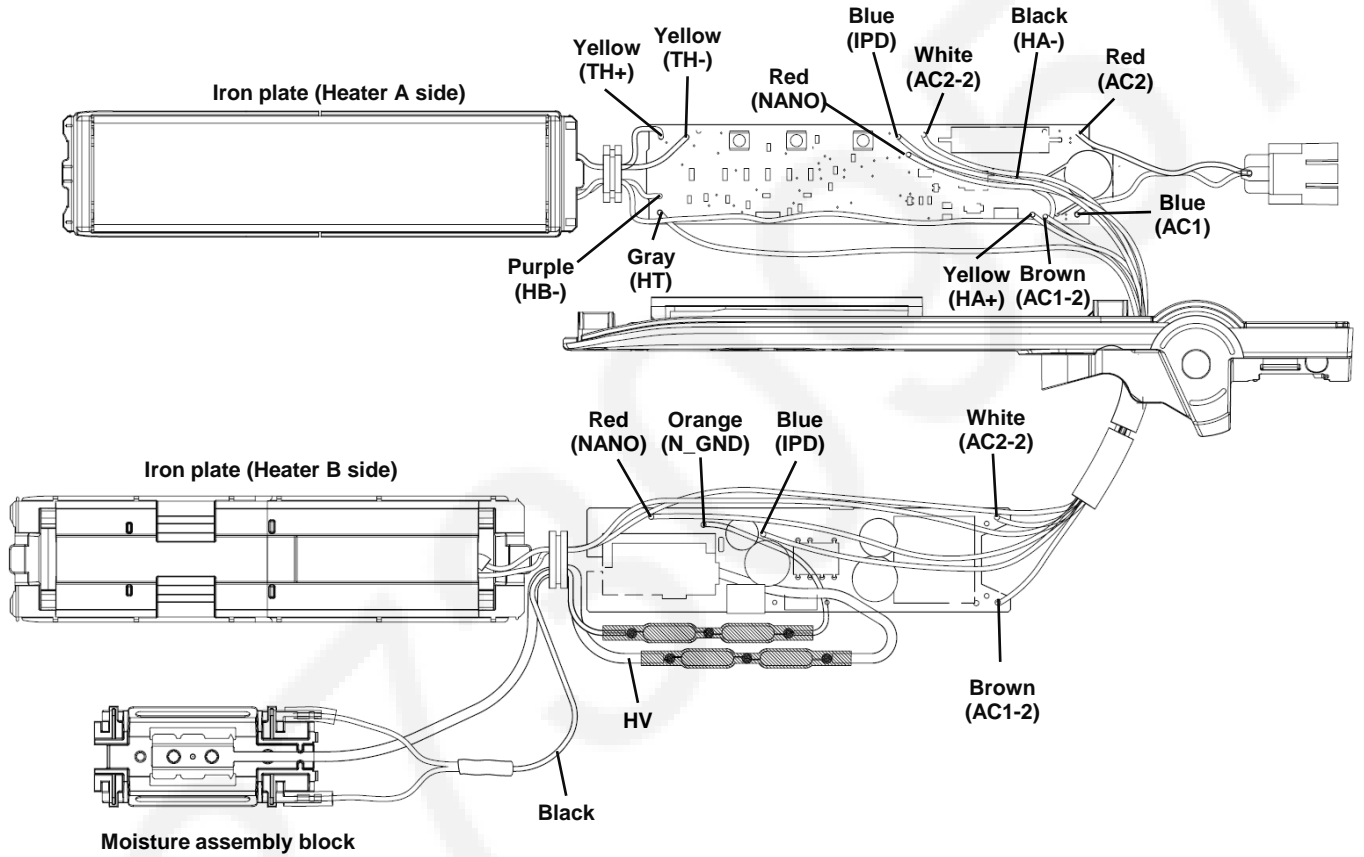
Figure 2.

4.3 Check list after assembly

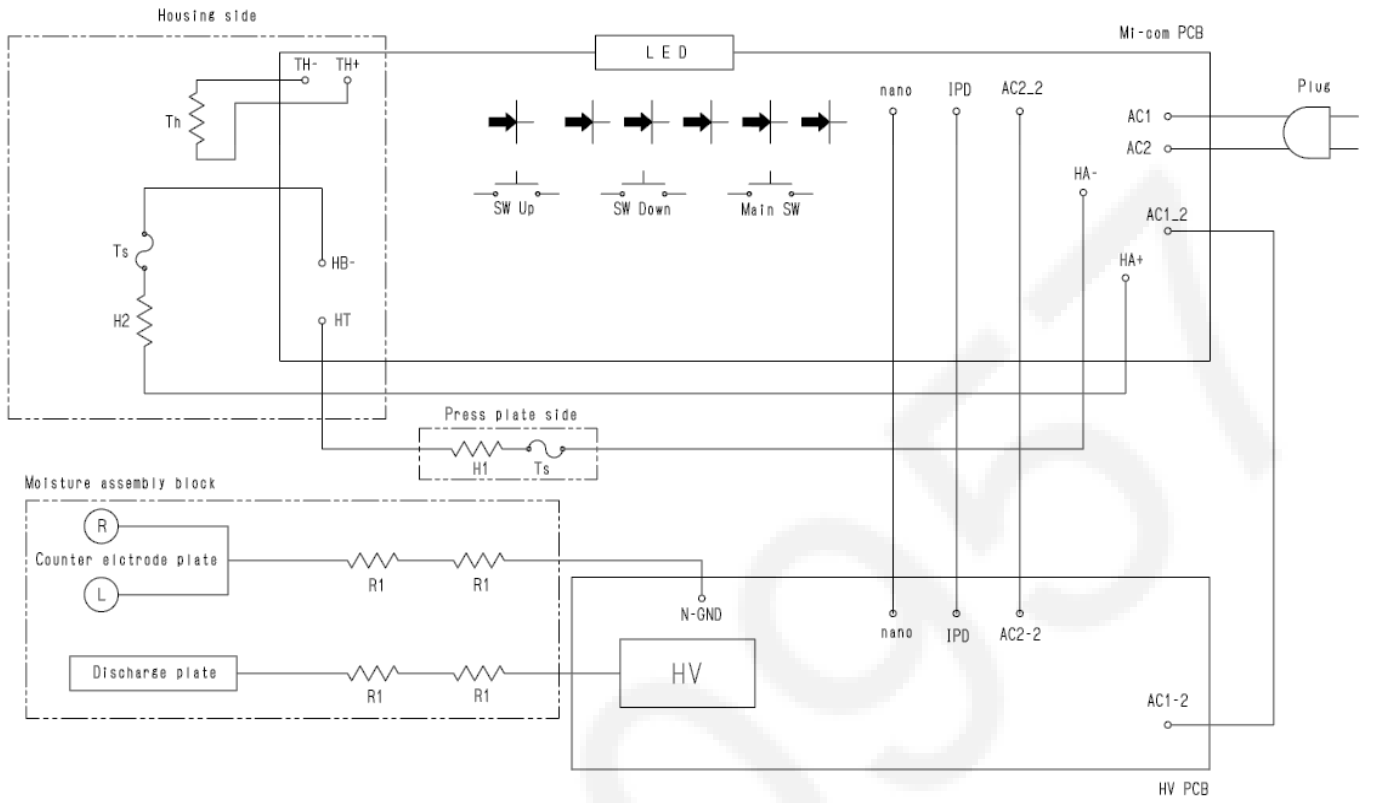
Apply voltage to Main body and press the Power Switch, The Main body must be follow below items.

- (1) LED Lights
- (2) Both Iron Plate become hot.
- (3) Ion is generated effectively
- (4) Able to lock.

5. Wiring Connection Diagram

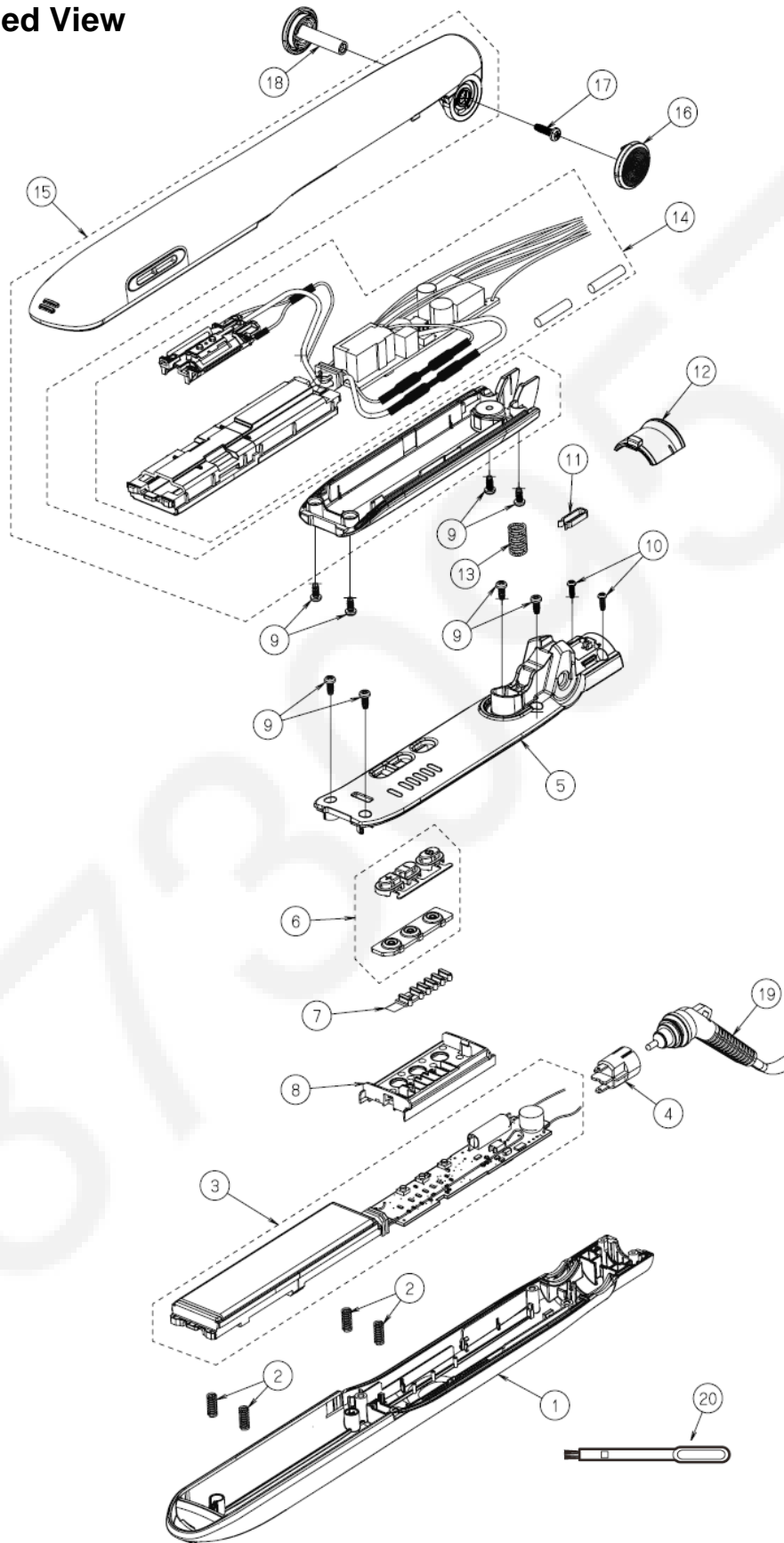


6. Schematic Diagram



7. EXPLODED VIEW & REPLACEMENT PARTS LIST

7.1. Exploded View



All parts are supplied from PMFTH-AP through PLAP

7.2 Parts List for EH-HS99

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	1	EHHS99HS685W	HOUSING A ASSEMBLY	1	FOR -K685,-K695 : OM,QA,SA,AE,KW
	2	EHHS99FSW	SPRING	4	*1
	3	EHHS99HAB6W	HEATER A ASSEMBLY	1	FOR -K685,-K695 : OM,QA,SA,AE,KW
	4	EHHS99CTBW	CONNECTOR COVER ASSEMBLY	1	
	5	EHHS99HSBNW	HOUSING B	1	FOR OTHER
	6	EHHS99SWBNW	SWITCH BUTTON ASSEMBLY	1	
	7	EHHS99LEDLW	LED LENS MOLDING	1	
	8	EHHS99SWCBW	SWITCH COVER	1	
	9	EHHS99T266BW	TAPPING SCREW 2.6*6	8	*1
	10	EHHS99T206BW	TAPPING SCREW 2.0*6	2	*1
	11	EHHS99LPSW	LOCK PLATE SPRING	1	
	12	EHHS99SLPBW	SLIDE LOCK PLATE	1	
	13	EHHS99PSW	PIVOT SPRING	1	
	14	EHHS99HBB6W	HEATER B ASSEMBLY	1	FOR -K685,-K695 : OM,QA,SA,AE,KW, INCLUDE 2 INSULATION TUBES
	15	EHHS99PP685W	PRESS PLATE (WITH PRESS PLATE COVER)	1	FOR -K685 : AE,SA,OM
	15	EHHS99PP695W	PRESS PLATE (WITH PRESS PLATE COVER)	1	FOR -K695 : KW,QA
	16	EHHS99SCBW	SHAFT COVER	1	
	17	EHHS99T3010W	TORX SCREW 3.0*10	1	
	18	EHHS99SHBW	SHAFT	1	
	19	EHHS95PCS3W	POWER CORD	1	S3-PLUG, FOR K685,-K695 : OM,QA,SA,AE,KW
	20	EHHS99CBW	CLEANER BRUSH	1	
	-	EHHS9968503W	OPERATING INSTRUCTIONS WITH STICKER FOR BARCODE	1	FOR -K685 : AE,SA,OM,KW,QA
	-	EHHS9968501W	INDIVIDUAL PACKAGE WITH STICKER FOR BARCODE	1	FOR -K685 : AE,OM,SA
	-	EHHS9969501W	INDIVIDUAL PACKAGE WITH STICKER FOR BARCODE	1	FOR -K695 : KW,QA
	-	EHHS99S09W	FILLER FOR PACKAGE	1	

Remarks : *1 Individual Available