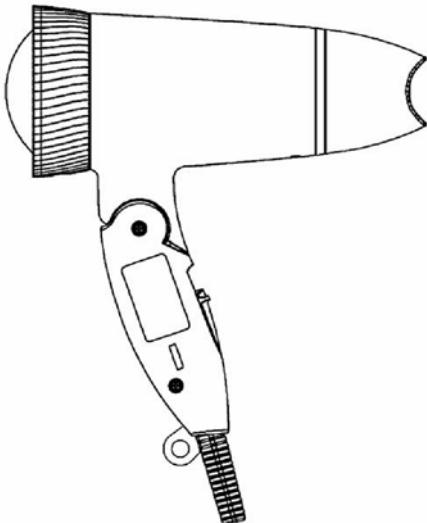


Service Manual

Hair Dryer

Model No. EH-ND52

ASIA



⚠ 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; Typical the melting point is 50 - 70°F (30 - 40°C) higher. Please use a soldering iron with temperature control and adjust it to $750 \pm 20^{\circ}\text{F}$ ($400 \pm 10^{\circ}\text{C}$). 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	AC220-240V	50-60	Hz
Power consumption	240V	1500	W
	230V	1400	W
	220V	1300	W
Air volume with attachment			1.30 m^3/min
Air flow temperature (Mode 3) (in case of room temperature 30°C)			120 $^{\circ}\text{C}$
Cord length	S3,B2 Plug	1.875	m
	B2 Plug (615,645)	1.820	m
Weight (without power cord and nozzle)			330 g

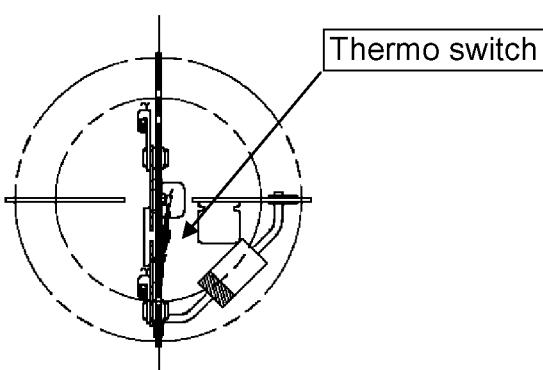
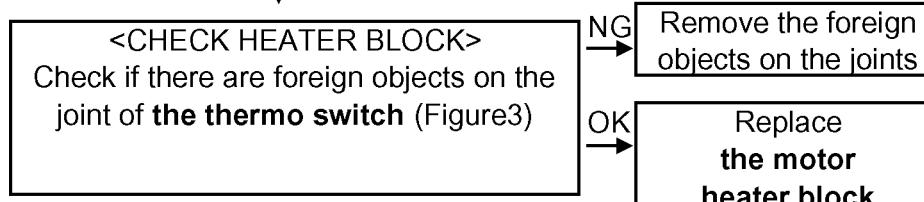
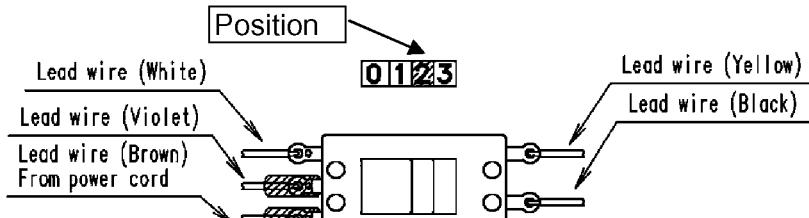
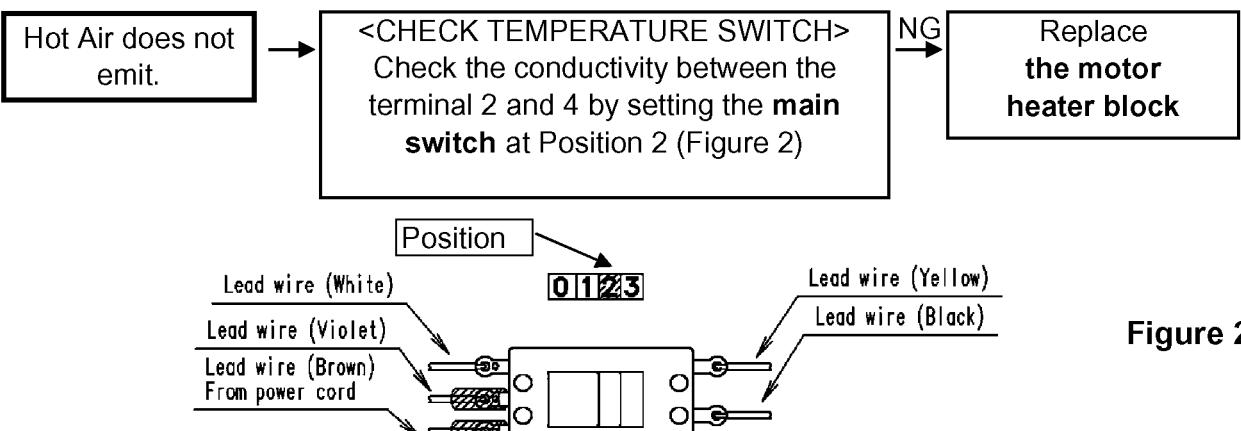
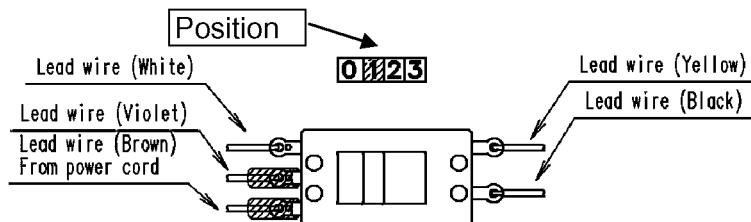
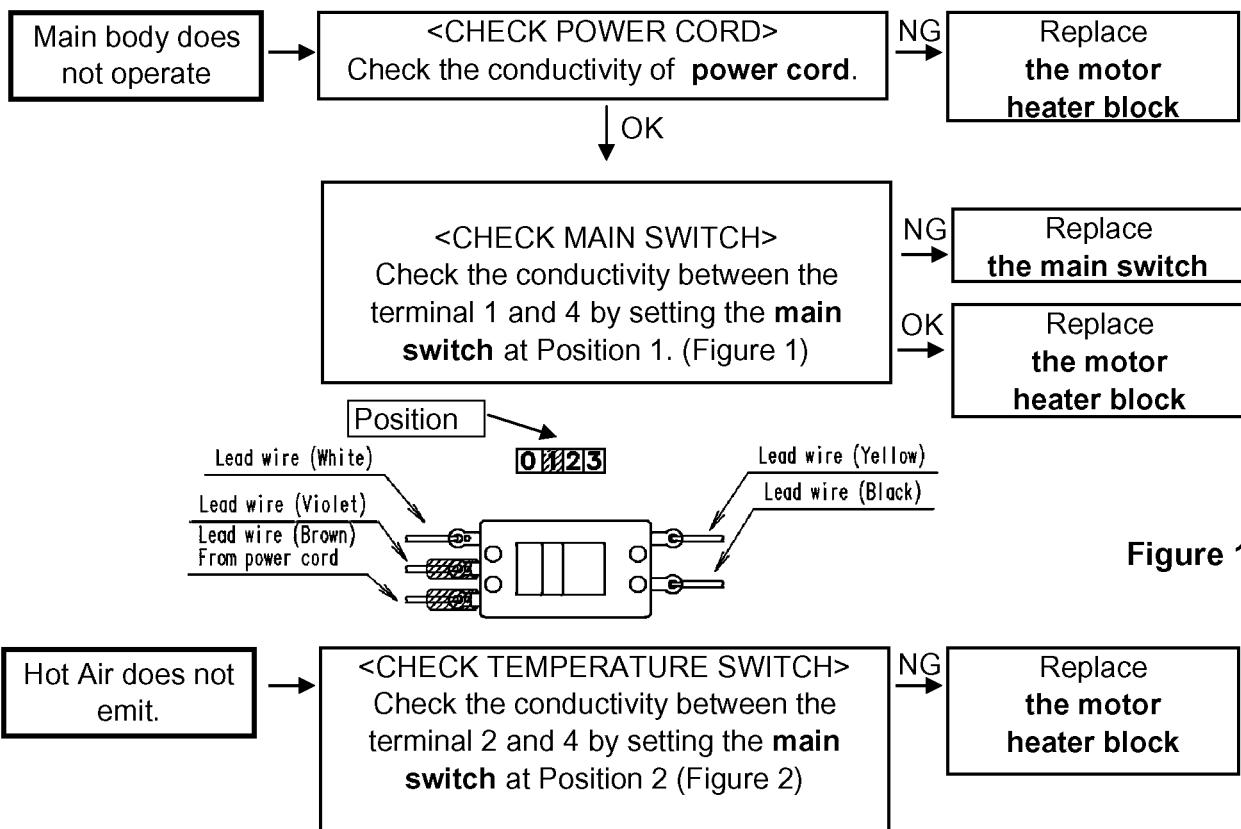
3 Troubleshooting Guide

Refer to WIRING CONNECTION DIAGRAM.

< TROUBLE >

< CHECK >

< REMEDY >



4 Disassembly and Assembly Instructions

4.1. Disassembly instruction

1. Take off nozzle as same direction in figure 4.

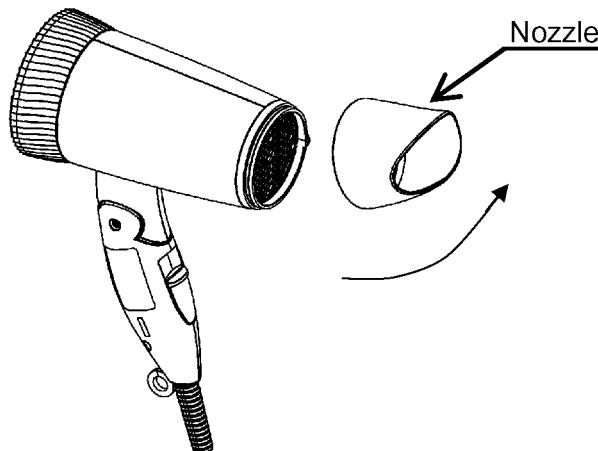


Figure 4

2. Remove tapping screws by Plus Driver and 2 torx screws by IEC driver as figure 5.

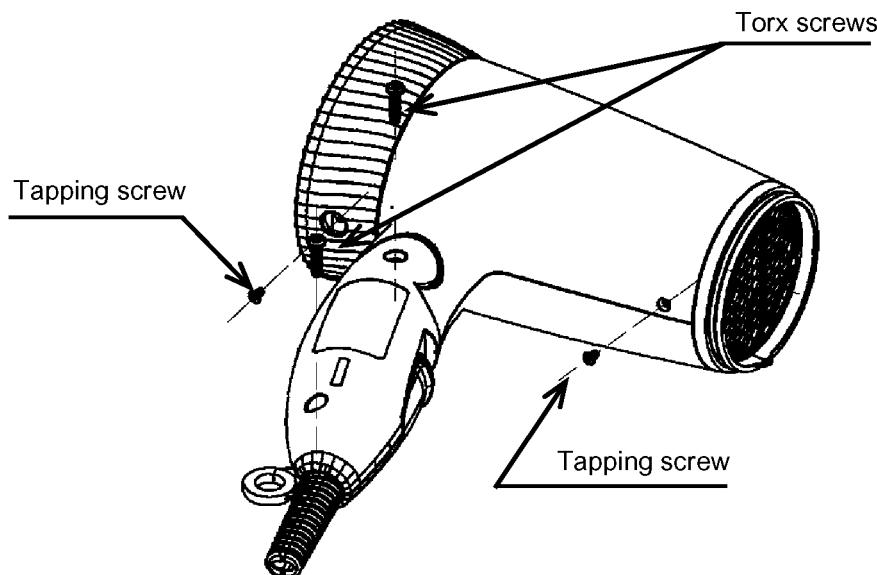


Figure 5

3. Take off an air outlet grill and an air outlet ring by rotating.

Take off an air inlet ring by rotating, then pulling a rear cover as figure 6.

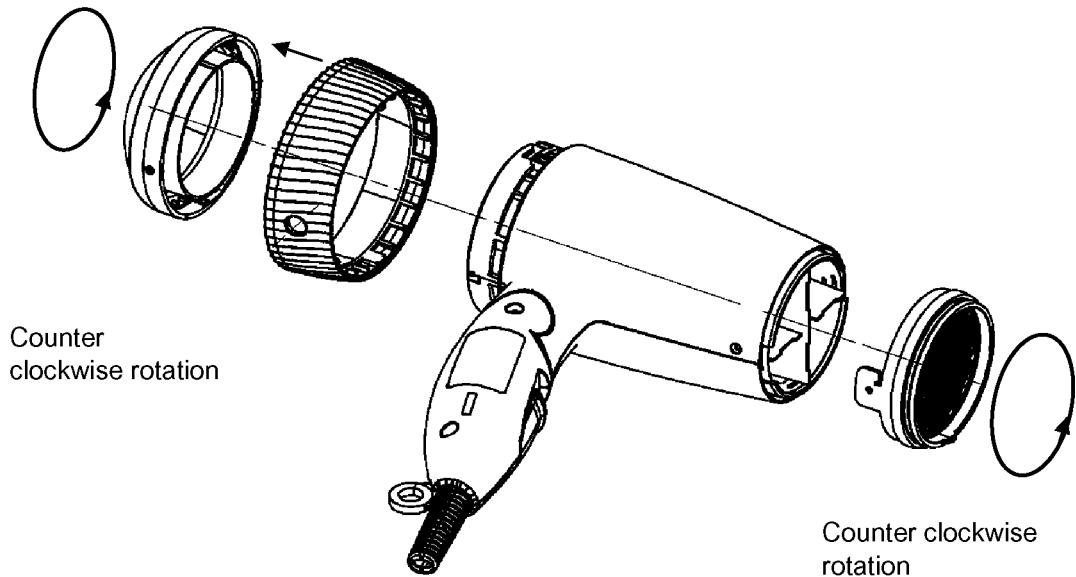


Figure 6

4. Take off a handle A from housing A and B as figure 7.

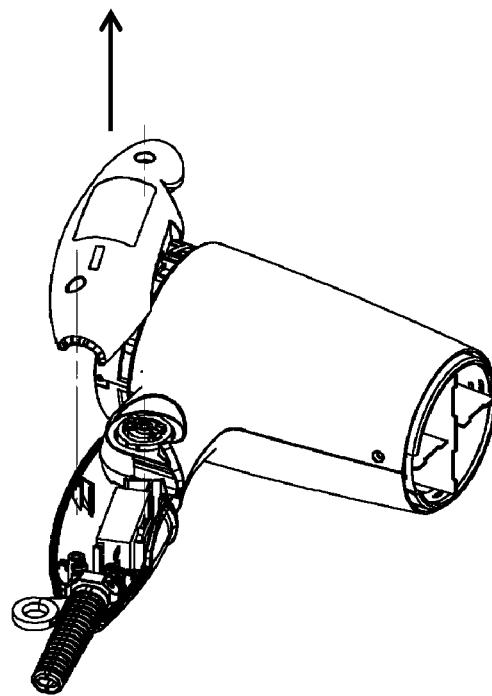


Figure 7

5. Take off a housing A from a housing B .

Then remove tapping screws and a power cord retainer from handle B as figure 8.

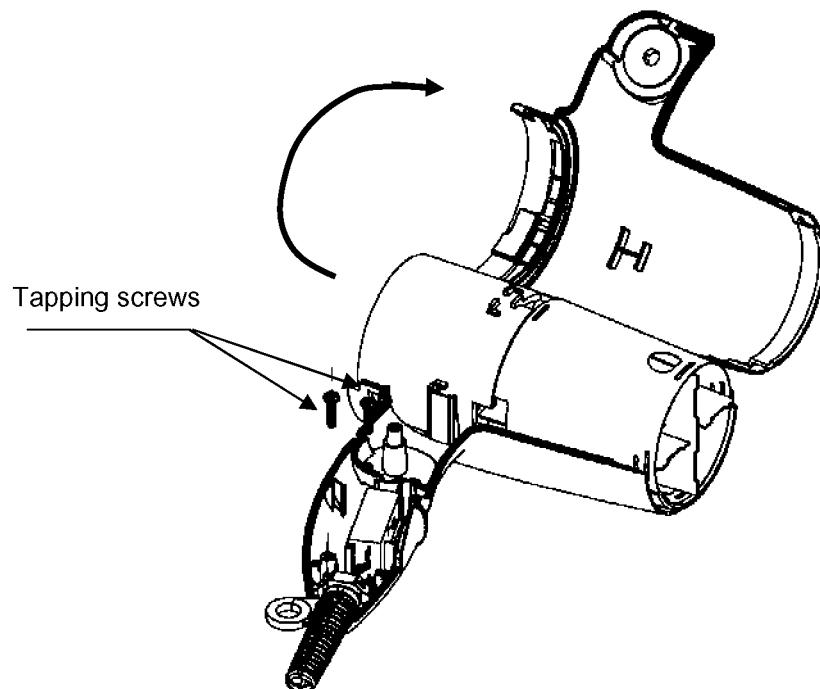


Figure 8

6. Take off a motor heater block from a housing B as figure 9.

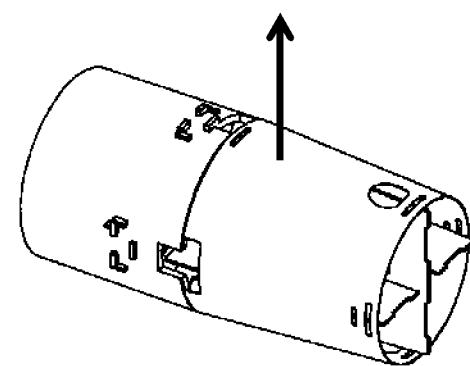
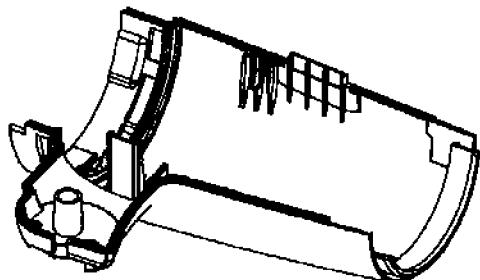


Figure 9



4.2. Assembly instruction

1. Install leadwire Black, Yellow, Violet, Orange and lead wire brown (from power cord) with a main switch and a capacitor as figure 10.

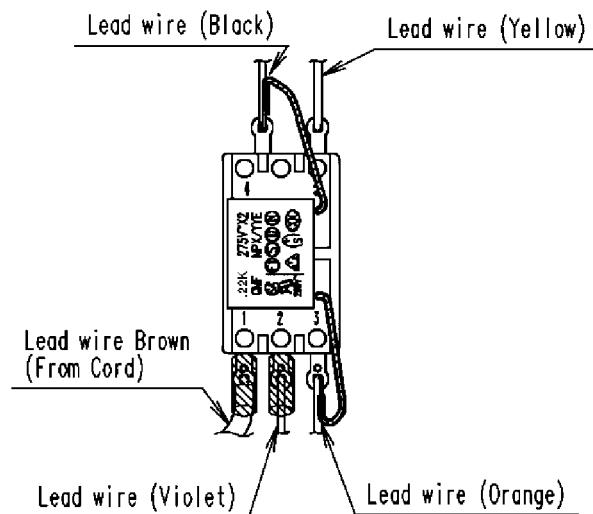


Figure 10

2. Connecting and soldering a motor heater block with a main switch as figure 11.

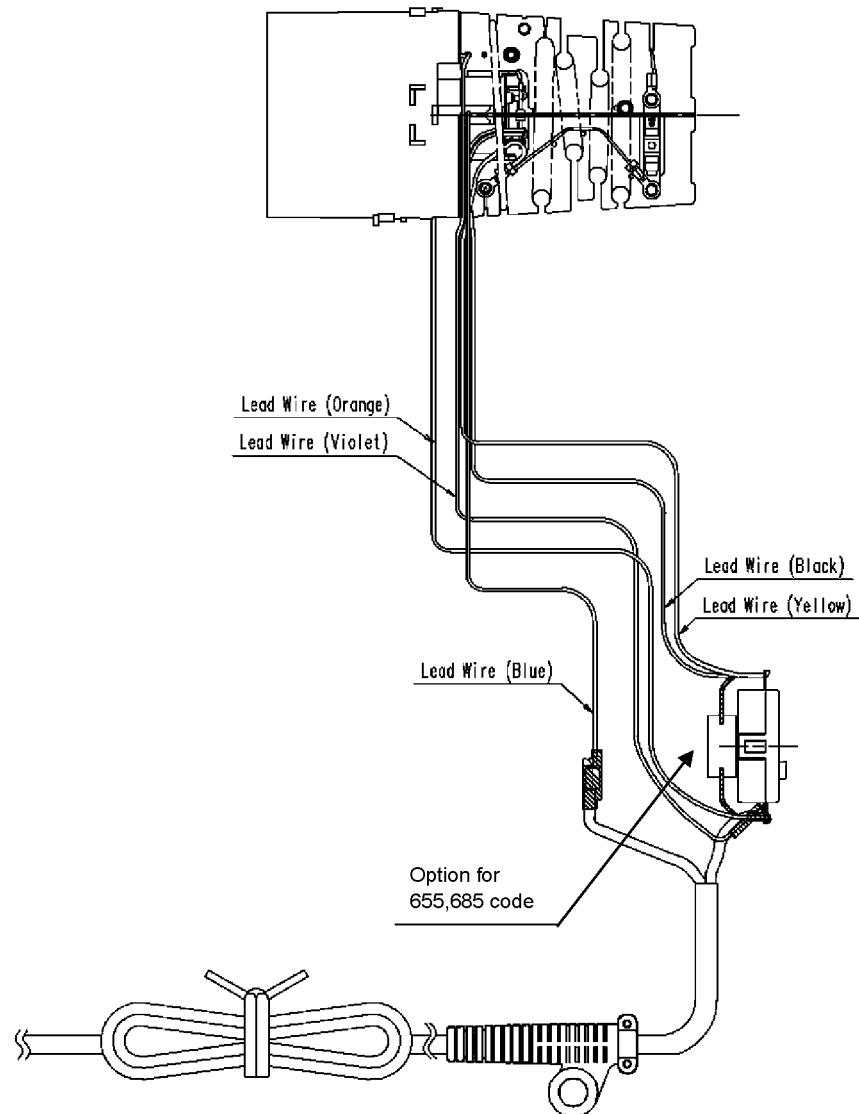


Figure 11

3. Assemble motor heater block with handle B and housing B as figure 12.

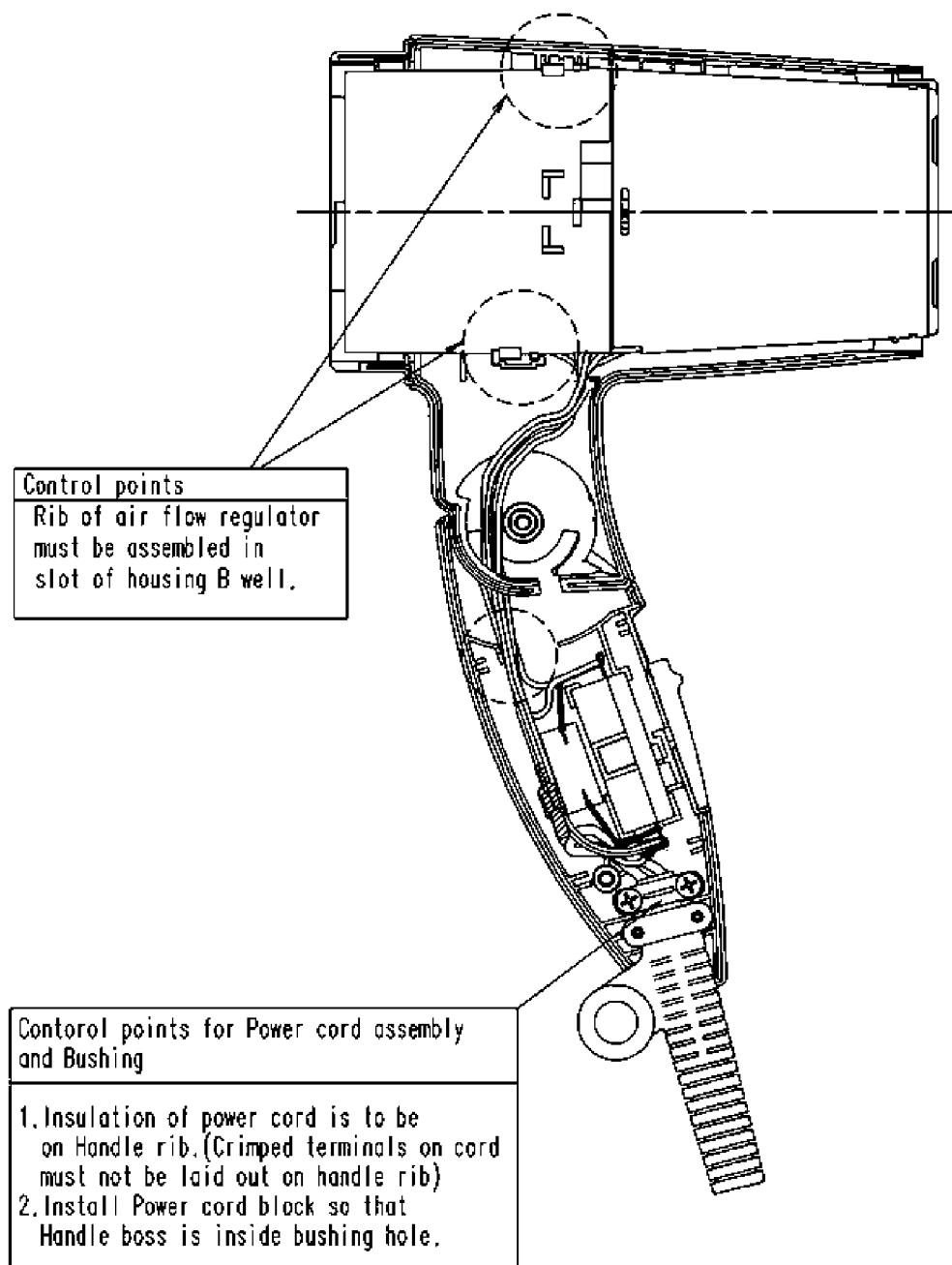


Figure 12

4. Assembly handle A , screw and nozzle as shown figure 13.

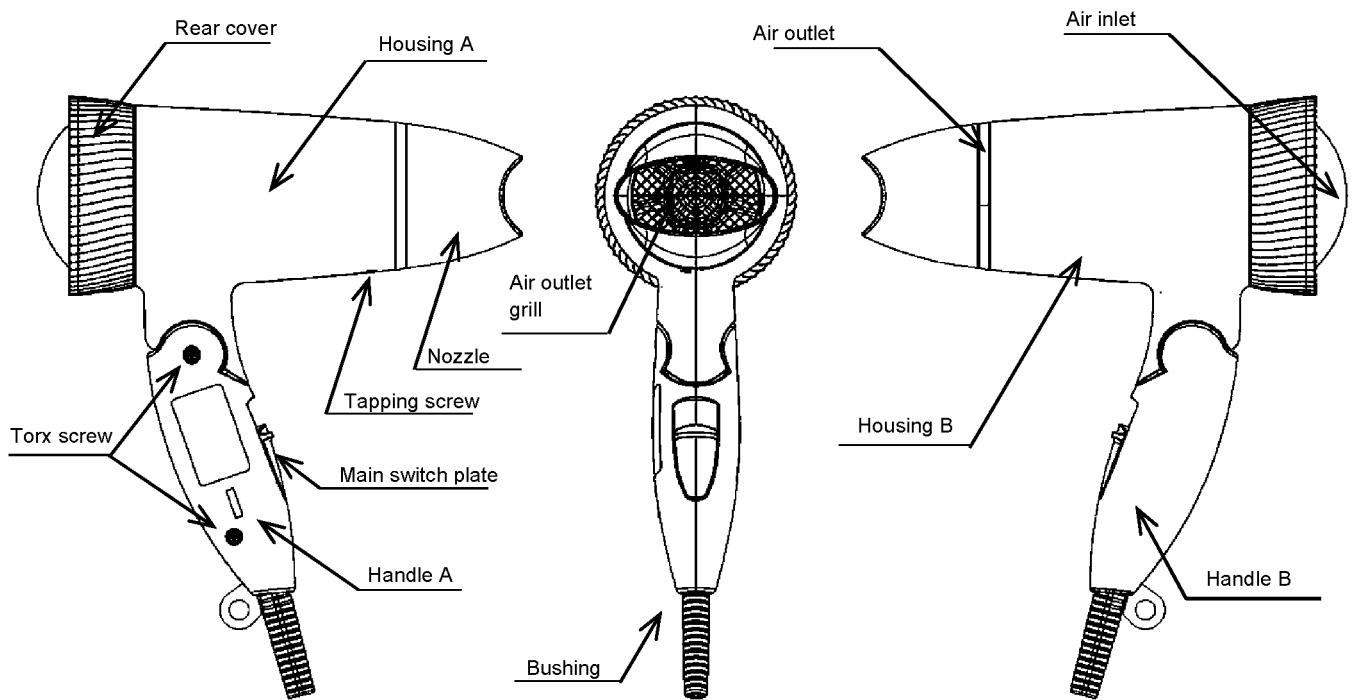


Figure 13

5 Wiring Connection Diagram

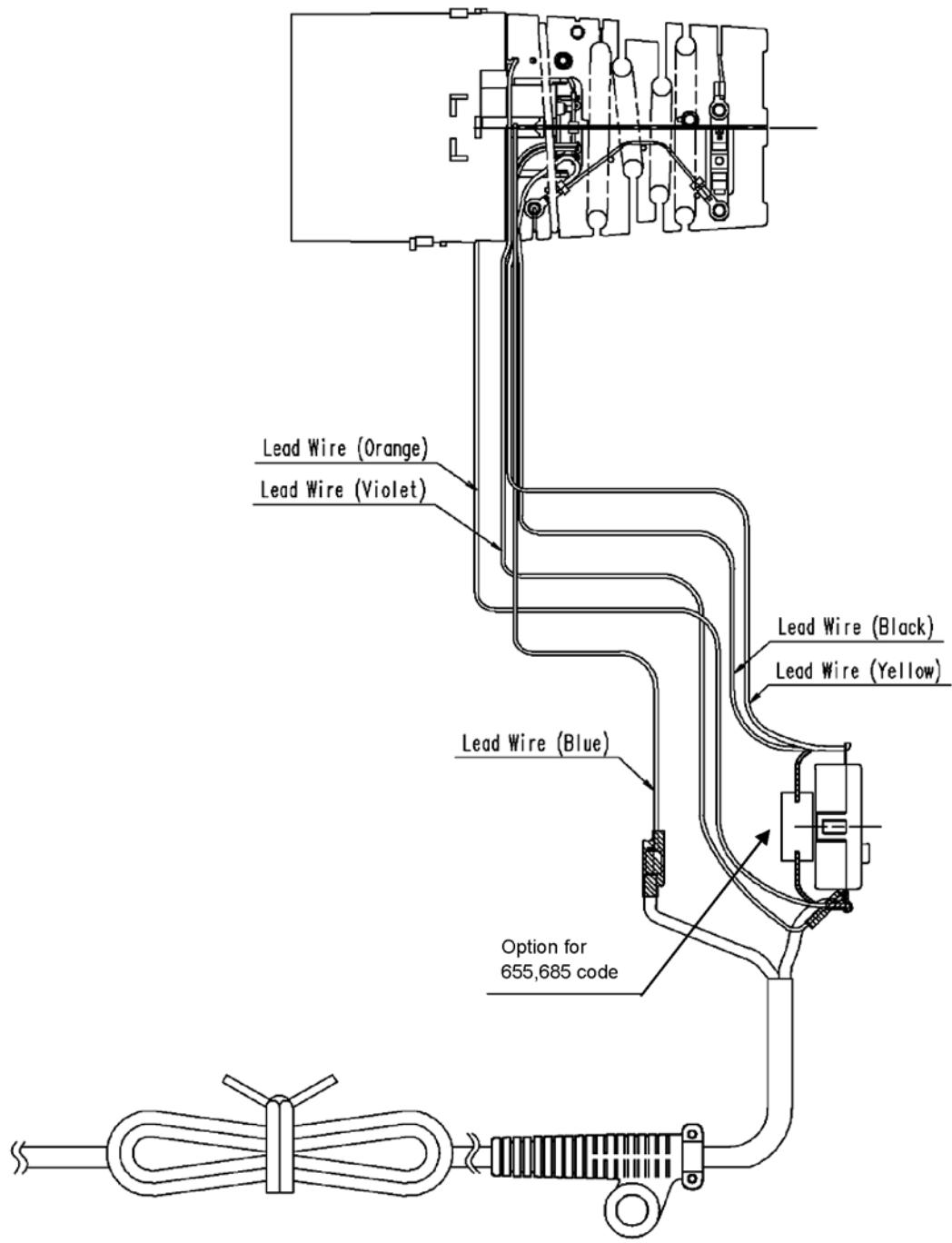


Figure 14

6 Schematic Diagram

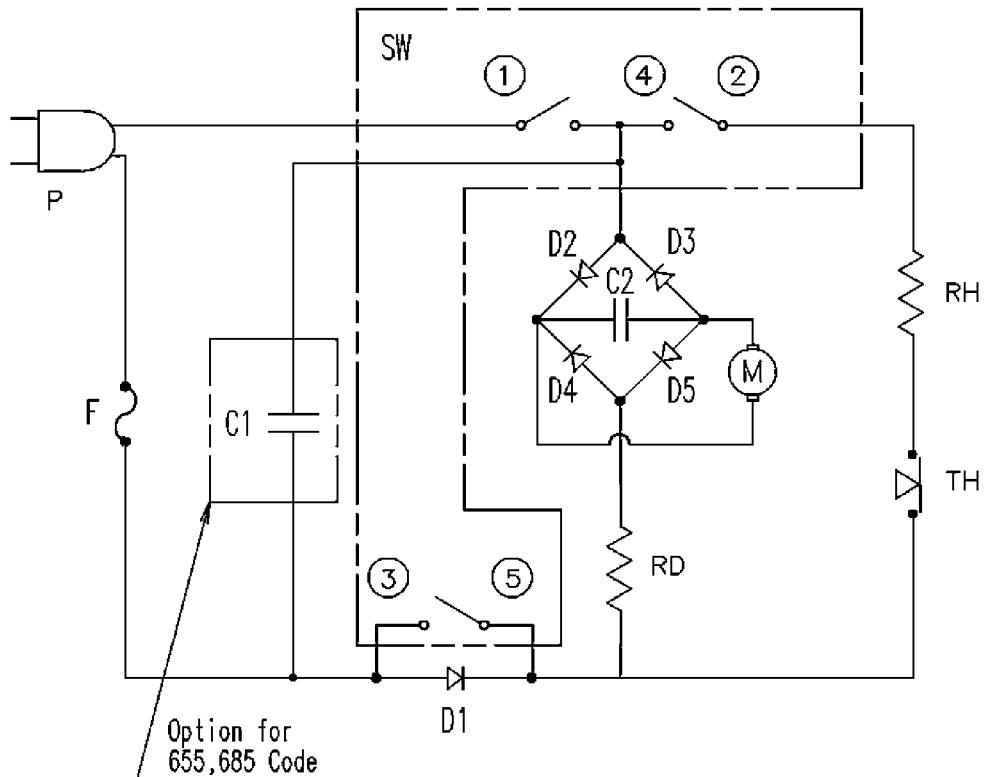


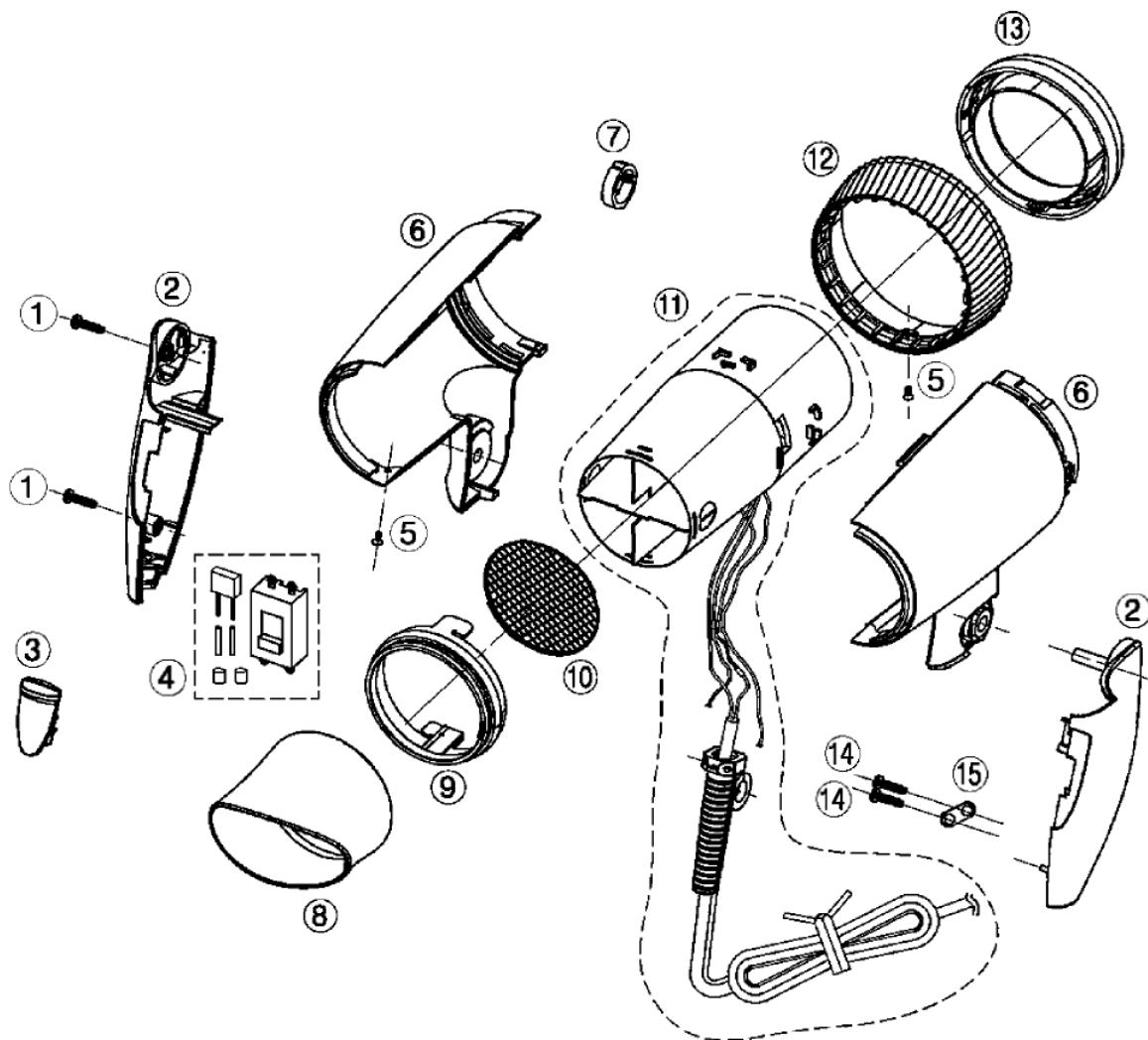
Figure 15

Mode	1~4	2~4	3~5
O	X	X	X
1	O	X	X
2	O	O	X
3	O	O	O

Component		Specifiacions	Specifiacions
Symbol	Description	EH-ND52 (220~240 V) Code 655,685	EH-ND52 (220~240 V) Code 615,645,L
C1	Capacitor (Noise suppression)	0.22 μ F , 275 Vac	-
C2	Capacitor (Motor)	0.10 μ F , 100 Vdc	
RH	Heater coil	$41.0 \pm 1.2 \Omega$	
RD	Voltage dropping resistor	$360.0 \pm 10.0 \Omega$	
TH	Thermo switch	$120 \pm 5 ^\circ C$	
F	Temperature fuse	15 A , 250 V , $142 ^\circ C$	
D1	Diode	1000 V , 7 A	
D2,D3,D4,D5	Rectifier diode	600 V , 1 A	
SW	Main switch	250 V , 7.5 A / 125 V , 13.5 A	
P	Power cord		
M	Motor	DC 24 V	

7 Exploded View and Replacement Parts List

Model No. : EH-ND52 Exploded View



Remarks : *1 Individual Available
All parts are supplied from PEW-Thailand through PLGA

Model No. : EH-ND52 Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	1	EHND52T0312W	TORX SCREW 3*12	2	FOR HANDLE AB *1
	2	EHND52HDWW	HANDLE AB (WHITE)	1	
	3	EHND52MSPWW	MAIN SWITCH PLATE (WHITE)	1	
	4	EHND52MSW	MAIN SWITCH	1	INCLUDE 2 INSULATION TUBES (FOR CODE 615,645)
	4	EHND52MS2W	MAIN SWITCH	1	INCLUDE CAPACITOR, 4 INSULATION TUBES (FOR CODE 655,685)
	5	EHND52T2005W	TAPPING SCREW 2.0*5	2	FOR HOUSING AND REAR COVER *1
	6	EHND52HSNW	HOUSING AB (FLOWER CHAMP.GOLD)	1	FOR CODE N Series
	6	EHND52HSVW	HOUSING AB (FLOWER META.VIOLET)	1	FOR CODE V Series
	7	EHND52SRTW	SWIVEL RING	1	
	8	EHND52NZYW	NOZZLE (TRANS.YELLOW)	1	FOR CODE N Series
	8	EHND52NZVW	NOZZLE (TRANS.VIOLET)	1	FOR CODE V Series
	9	EHND52AORW	AIR OUTLET RING	1	
	10	EHND52AOGW	AIR OUTLET GRILL	1	
	11	EHND52MHB2W	MOTOR HEATER BLOCK	1	B2-PLUG, INCLUDE 2 INSULATION TUBES
	11	EHND52MHS3W	MOTOR HEATER BLOCK	1	S3-PLUG, INCLUDE 2 INSULATION TUBES
	12	EHND52RCNW	REAR COVER (CHAMP.GOLD)	1	FOR CODE N Series
	12	EHND52RCVW	REAR COVER (META.VIOLET)	1	FOR CODE V Series
	13	EHND52AIRWW	AIR INLET RING	1	
	14	EHND52T3080W	TAPPING SCREW 3*8	2	FOR POWER CORD RETAINER *1
	15	EHND52PCRBW	POWER CORD RETAINER	1	
-	EHND52S03W	INSTRUCTION BOOKLET	1		
-	EHND52615NW	INDIVIDUAL PACKAGE	1	FOR CODE N615 (INDIA)	
-	EHND52615VW	INDIVIDUAL PACKAGE	1	FOR CODE V615 (INDIA)	
-	EHND52645NW	INDIVIDUAL PACKAGE	1	FOR CODE N645 (VIETNAM)	
-	EHND52645VW	INDIVIDUAL PACKAGE	1	FOR CODE V645 (VIETNAM)	
-	EHND52655NW	INDIVIDUAL PACKAGE	1	FOR CODE N655 (MALAYSIA)	
-	EHND52655VW	INDIVIDUAL PACKAGE	1	FOR CODE V655 (MALAYSIA)	
-	EHND52685NW	INDIVIDUAL PACKAGE	1	FOR CODE N685 (S'PORE,HONG KONG,KUWAIT, UAE)	
-	EHND52685VW	INDIVIDUAL PACKAGE	1	FOR CODE V685 (S'PORE,HONG KONG,KUWAIT, UAE)	