



**Quantum  
Infrared-Hi-Tech  
Color Processor**

**CE**

**1487S Quantum Portable Color Processor**

**Operator's  
Manual**

Collins Manufacturing Company  
2000 Bowser Road Cookeville, TN 38506  
[www.CollinsMfgCo.com](http://www.CollinsMfgCo.com)  
Tollfree 800-292-6450

Before using this product, please read the details of operation manual!

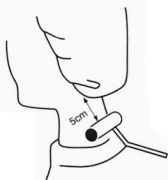
## TECHNICAL PARAMETERS

110-120V~ 50/60Hz 750W

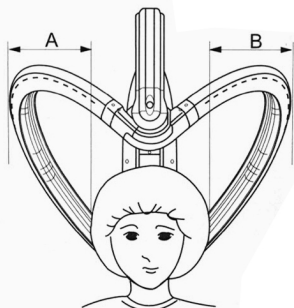
To get the best results out of PHANTOM and to make customers feel comfortable under PHANTOM, please follow steps illustrated hereunder.

### Step 1

● Use the sliding pipe to adjust the height of the Quantum, it should be adjusted so the position guide is 2' from rear of the neck.

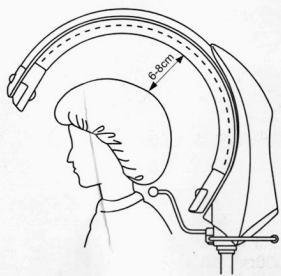


### Step 2



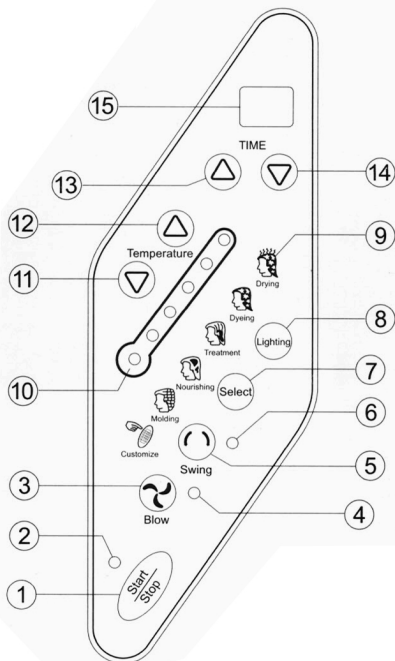
Distances of A and B should be about the same.

### Step 3



● Best position: the center of swing arm is 6-8 cm from the head.

## CONTROL PANEL



### 1. START/STOP key

Push this key to start and push it again to stop working.

### 2. Illumination of START /STOP

Push "START/STOP" key to work\*illumination is on. It is off if the machine stops.

### 3. FAN key

Push this key to start or stop fan working.

### 4. Illumination of FAN

Illumination flashes if Fan key is at weak or middle levels. At strong level, it keeps luminous. It is off if the fan stops.

### 5. SWING key

Push this key to stop the arms' swinging and the arms stay at any current position. Push this key again to continue arms' swinging.

### 6. Illumination of SWING

Illumination flashes if arms stop swinging. It is off if the arms are swinging.

### 7. CHOOSE MODE key

Push this key to choose one of the six modes which are displayed in a circular order as: Drying, Dyeing, Treatment, Nourishing and Customize.

### 8. Illumination key

Push this key to start or stop illumination.

### 9. Illumination of modes

Illumination shows the selected mode when you are choosing modes.

### 10. Illumination of temperature(level 1-6)

Illumination shows the selected temperature.

### 11. Temperature decrease key

Push it to decrease temperature.

### 12. Temperature increase key

Push it to increase temperature.

### 13. TIME increase key

Push this key once to increase 1 minute. Press it without release to increase time continually up to 60 minutes.

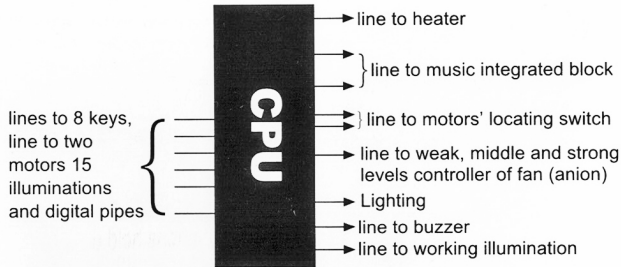
### 14. TIME decrease key

Push this key once to decrease 1 minute. Press it without release to decrease time continually down to 1 minute.

### 15. Digital indicator of time

It shows the left time of current working mode. It shows "00" if finishing operation and then starts to count the extra time. Time point light flashes once a second.

## Controlling wire diagram of integrated block

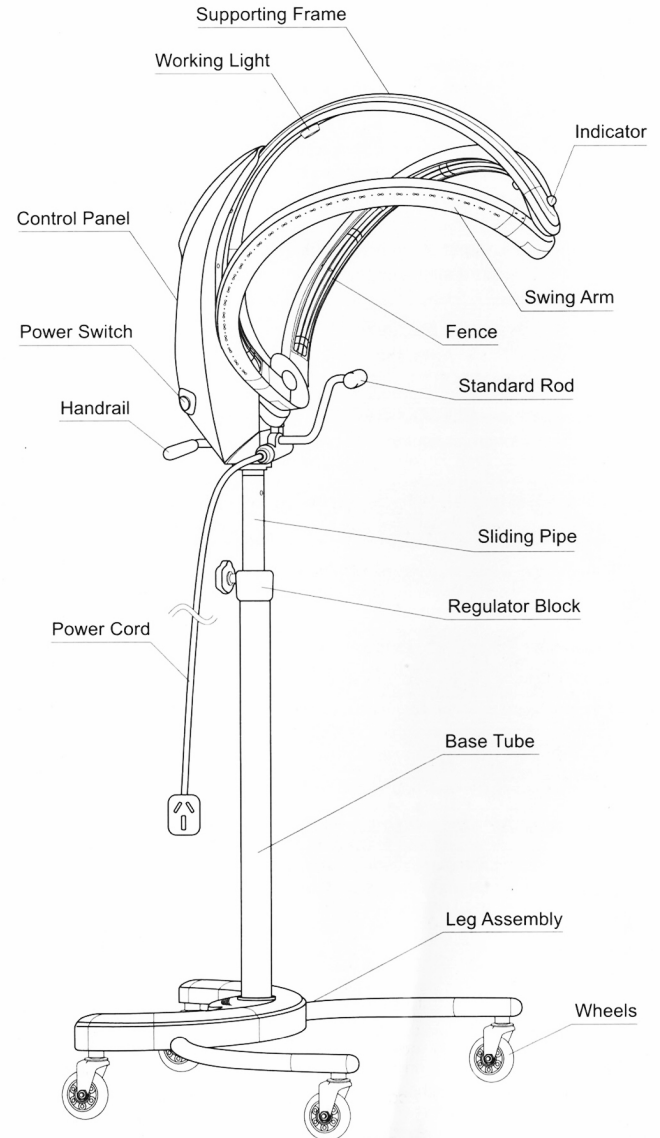


## Modes' application and prefixed functions

The following temperature and time are the factory settings.

Modes	Application	Time	Fan	Swing	Temp. level	Initiative time of Temp. level	Temp. control
Drying	Used for drying hair and common natural hairstyles.	18 min	on	on	6	3.5 min	Turn on or off by default heating programme
		Adjustable according to condition and method.					
Dyeing	When dyeing, adjust time and temp. level according to type of dye, hair and technique of hairdresser.	15 min	off	on	4	2.5 min	
		Adjustable according to condition and method.					
Treatment	When caring for hair, adjust time and temp. level according to type of shampoo and hair.	20 min	off	on	5	3 min	
		Adjustable according to condition and method.					
Nourishing	When nourishing, adjust time and temp. level according to the type of shampoo, hair and technique of hairdresser.	15 min	on	on	4	2.4 min	
		Adjustable according to condition and method.					
Molding	When molding, adjust time and temp. level according to the type of shampoo, hair and technique of hairdresser.	10 min	off	on	4	2.5 min	
		Adjustable according to condition and method.					
Customize	Used for several modes works together according to technique of hairdresser.	10 min	on	on	3	2 min	
		Adjustable according to condition and method.					

## PARTS NAME



# OPERATION MANUAL

## 1. The machine must be installed at a suitable position.

- The machine must be installed at a suitable position.
- Please read the relative details about suitable positions.
- The machine acts at its optimum performance only if installed at a suitable position.

## 2. Turn on the power switch

- Turn on the power switch and the inside red illumination shines.
- The control panel starts from the initiative mode "MANUAL".

## 3. Select a mode

- Select a mode you want.
- Temp. level, time and fan can be adjusted according to conditions.

## 4. Push "START/STOP" key to start

- The machine start to work according to the selected mode.

## 5. During operation

- The working light keeps luminous when working.
- Illumination of "START/STOP" keeps luminous.
- Illumination of selected mode keeps luminous.
- Illumination of selected temperature level keeps flashing.
- Time digital indicator shows the left time of current working mode. You may calculate how long the machine has worked.
- Time point light flashes once a second.
- During a certain working mode's operation, you may push any key to easily change TIME, TEMP and so on excluding the current working mode.

## 6. Change the current working mode during operation

- Push the "START/STOP" key to interrupt the working machine.
- Arms automatically swing back to the initiative position and stop heating.
- Illumination of "START/STOP" is off.
- Illumination of working mode and temperature level keeps luminous.
- Time point light is off and time indicator shows the preliminary set time.
- Reset the newly-selected mode and then push "START/STOP" key, it is converted.
- The machine starts to work according to the newly-selected mode.

## 7. Finish working

- Electronic buzzer sounds when internal time of mode shows "00".

- Illumination of "START/STOP" is off.
- Working light shines.
- Illuminations of modes and temperature level shines.
- Digital indicator of time shows "00" when finishing operation, then the time point light flashes once a second to start counting the extra time.

## 8. Turn off power source

- Turn off the machine's power switch.
- Please pull out the power plug if not use the machine for a long time.

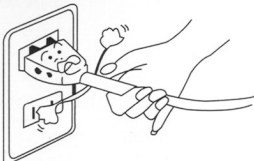
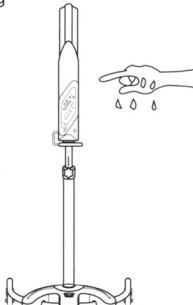
Initiative heating time of temperature level

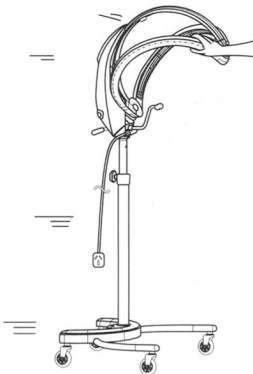
Level	1	2	3	4	5	6
Time	1 minute	1.5 minute	2 minute	2.5 minute	3 minute	3.5 minute

**Note:** When using the control panel correctly, illuminations and buzzer's clew go with every key. There is music and fan wind during operation. They can be turned on or off at will. The machine can resume to initiative position when the set time is up. Buzzer sounds and time indicator shows "00" and begins to calculate time.

# CAUTIONS AND MAINTENANCE

## Cautions

- 1. QUANTUM is sensitive.**  
PHANTOM has complex electronic parts like ones in computer. They are easily affected by extreme environment such as in cold outdoor or under summer sun light. Please avoid exposing at extreme hot or cold conditions.
- 2. QUANTUM needs correct power source.**  
PHANTOM needs at least 10A outlet for itself. Please connect PHANTOM with correct outlet and do not share with other appliances.
- 3. Do not disconnect the power plug by pulling the cable.** Hold the plug and then pull.
- 4. Do not wet QUANTUM.** Dry your hands first and then touch switch panels. Please keep dry.

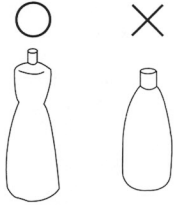
- 5. Do not halt the circular heater with hand unless emergency.**

- 6. Do not move or lift QUANTUM by grabbing circular heater with hand.** This will damage parts.

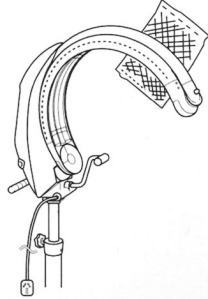
- 7. Disconnect the power plug after use in a bathroom, because it is still dangerous when close to water.**
- 8. In order to increase protection, we recommend to install a under 30mA rated current RCD in the bathroom-powered electrical circuit.**
- 9. If abnormalities is founded after connected to power, send QUANTUM to service center, do not attempt to repair it.**
- 10. Do not bend, pull or bump the power cord.** In order to avoid danger, power cord have to be replaced by manufacturer people or professionals when it is damaged.
- 11. Do not let a child to use**
- 12. QUANTUM is not designed for weak or mentelly ill people use, including children.** Except under guidance and assistance.

## MAINTENANCE

1. Use dry and soft cloth to clean plastics, plated, and painted surface.
2. With damp cloth with neutral detergent to wipe and remove stubborn stains and dirt.
3. Use mild neutral detergent only.

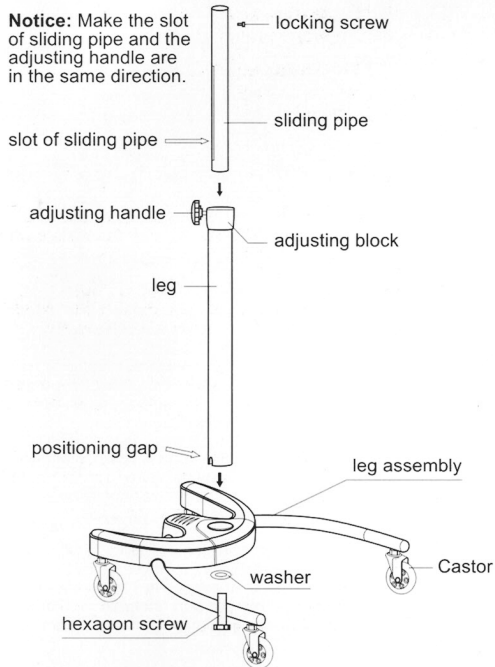


mild neutral detergent    solvent or gasoline

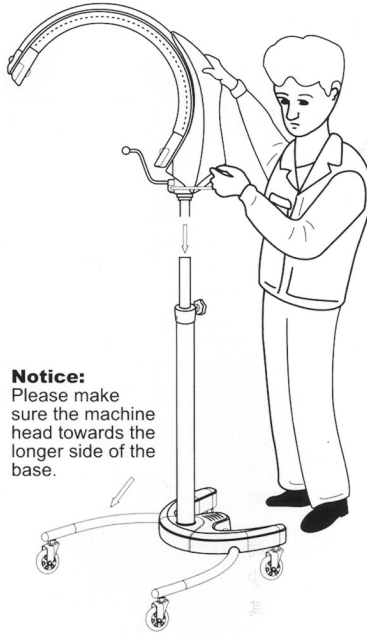


## PARTS ASSEMBLY DIRECTIONS

**Notice:** Make the slot of sliding pipe and the adjusting handle are in the same direction.



## INSTALLATION OF STANDING TYPE



**Notice:**  
Please make sure the machine head towards the longer side of the base.

