

INSTRUCTIONS FOR F-818 THREE IN ONE INSTRUMENT

Ultrasonic. Galvanic & Skin Scrubber

Function Fundamentals

1. Fundamentals of Ultrasonic

Ultrasonic is a mechanical vibratory wave of frequency over 20,000Hz and super-audible to the human sense of hearing; there are three mainly following functions:

(1) Mechanical Function

Ultrasonic is more energy than the usual sound. When it acts onto human body, cell's movement in the body will speed up; it will also result a certain massage, change the cell's energy, create cell's movement, plasmogen granule turning, particle vibration and friction, and activate pervasion of the semipermeable membrane, so as to improve the circulation of local bloodstream and lymph, increase cell's permeability, enhance tissue' metaboly and regeneration ability.

It is clear that the mechanical action of Ultrasonic can soften tissue, increase penetration, enhance metaboly, and activate nerve system and cell's function. When it acts onto human body, energy can be transfer into deep area of skin, thus there is better cure result than that of mechanical massage.

(2) Tepidity Function

The tepidity function of Ultrasonic is a cure way rank only second to mechanical function; it internally create heat, 79 to 82% of which is carried away by bloodstream and the balance 18 to 21% of which is scattered to the nearby tissue by the way of thermo-conduction. Thus at the beauty cure with Ultrasonic, there is no remarkable feeling to the patient. With different cure way, there is difference for temperature rising degree in the body tissue. Under the same condition of continuous Ultrasonic radiation (with ∞ symbol on panel), the settled method creates higher temperature than the moving method while the methods of pulse radiation and discontinuous pulse radiation (with \square , \square symbols on panel) create much less thermo efficiency.

Generally speaking, the tepidity function of Ultrasonic can cause speedup of bloodstream and change of metaboly procedure so that enhance bloodstream circulation, decrease nerve excitability, and create demulcent efficacy, the muscle fiber of convulsiveness relax so as for function of solution.

(3) Chemical Function

Chemical function of Ultrasonic is mainly caused by its polymerization and depolymerization reactions. Polymerization is a procedure that many alike or similar molecules combine into a bigger one. Little dosage of Ultrasonic can promote growth and combination of albumen complex within cells; there is activation efficacy of regeneration to the wounded tissue, while there is activation efficacy for cure dosage of Ultrasonic to combination of albumen within fiber cells of the body. Depolymerization reaction is a procedure that viscosity of large molecule goes down and molecular weight decrease with result that viscosity of medicaments solution goes down temporarily in favour of absorption.

It is thus clear that there is chemical efficacy for Ultrasonic to speed up cell metabolism and strengthen catalysis so that pH value in the tissue turns towards alkaline; there is also repression efficacy to turgescence aches and pain when skin is under phlogosis, increase permeability of cell theca for depolymerization of medicine in favour of which to permeate into bacterium and promote effect of medicine for sterilization.

Generally speaking, mechanical, tepidity and chemical functions taken on Ultrasonic can have superfine massage to cells in the local tissue, rise temperature at taxonomic of local tissue, increase diffuseness of cell colloid, activate cells, enhance circulation of bloodstream, soften tissue, speed up chemical reaction and metabolism, affect functions of albumen molecules as well as kinds of enzymes, pH value, and change contents of biologic active material.

2. Fundamentals of Galvanic

Galvanic is with the help of direct current's action of negative and positive ions. It cures skin with two ways of nutrition import and impurity export. Nutrition import is a way to have water-soluble nutrition penetrated more effectively into deep skin so as to supply it with nutrition. Impurity export is a way to import alkaline solution so as to soften the senescent horn on surface, resolve grease on skin surface, balance skin secretion; and at the meantime, export impurity and heavy metal ion from deep skin.

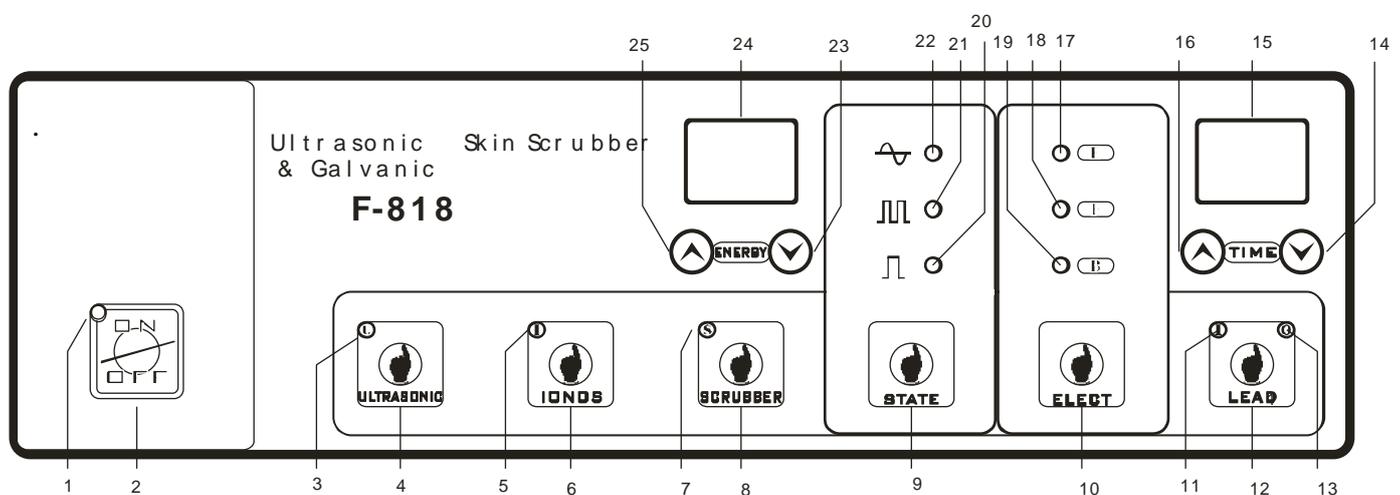
Anode of electric ion can have acid solution (such as constringing water) imported into skin so as to harden skin tissue, propitiate nerve and reduce blood supply. It is mainly used to tighten up trichopore after beauty cure, lessen red and swollen skin (such as not serious swelling skin), and in case of skin inflammation after swelling and skin cure.

Cathode of electric ion can have alkaline solution (such as anti-dirt liquid) imported into skin to soften skin tissue, activate nerve and increase blood supply. It is mainly used for full-grown and senescent skin, and unctuous skin.

Operation Illustration

1. Illustration of Panel and Functions

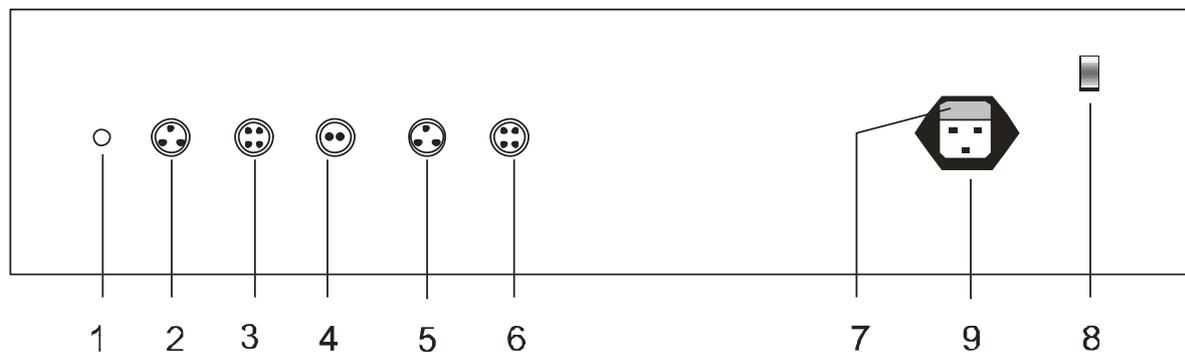
Illustration of Control Panel



1. Status Lamp of Power Supply
2. Power Switch
3. Status Lamp for operation mode of Ultrasonic

4. Bottom of ultrasonic operation mode
5. Status lamp of operation mode for galvanic positive and negative import
6. Bottom of operation mode for galvanic positive and negative import
7. Status lamp of scrubbing mode
8. Bottom of scrubbing mode
9. Switch bottom of waveform
10. Switch bottom of output probe
11. Galvanic anode
12. Switch bottom of galvanic positive and negative import
13. Galvanic cathode
14. Bottom to shorten operation time
15. Display of operation time
16. Bottom to lengthen operation time
17. Probe output status lamp for eye beauty
18. Probe output status lamp for facial beauty
19. Probe output status lamp for body weight loss
20. Status lamp for compound waveform
21. Status lamp for pulse waveform
22. Status lamp for continuous waveform
23. Bottom to decrease output energy
24. Display of output energy
25. Bottom to increase output energy

Illustration of Rear Control Panel



1. Socket of simulative bioelectrical inductive gauntlet
2. Output socket for scrubbing shovel
3. Output socket of galvanic current
4. Output socket for probe of body weight loss
5. Output socket for probe of facial beauty
6. Output socket for probe of eye beauty
7. Drawer of fuse
8. General power switch
9. Power input socket

Functions

- 1) Status lamp of power supply
- 2) Power switch: "POWER"
--- Turn on power connection, supply circuits with electricity.
- 3) Status lamp of ultrasonic operation mode
- 4) Bottom of ultrasonic operation mode (ULTRASONIC)
--- Turn on this bottom; the main unit will be switched into ultrasonic operation mode.
 - a. In the other operation mode, if this bottom is turned, the main unit will switch from the other mode into ultrasonic operation mode.
 - b. If this bottom is turned when it is already in the status of ultrasonic operation mode (The energy output does not display "00") , the main unit will return from ultrasonic output status into a pending status of this mode.
- 5) Status lamp for operation mode of galvanic positive and negative import
- 6) Bottom for operation mode of galvanic positive and negative import (IONOS)
--- Press this bottom, the main unit will enter operation mode of galvanic positive and negative import.
 - a. In the other operation mode, if this bottom is turned, the main unit will switch from the other mode into operation mode of galvanic positive and negative import.
 - b. If this bottom is pressed when it is already in the output status of operation mode for galvanic positive and negative import (The energy output does not display "00") , the main unit will return from output status of galvanic positive and negative import into a pending status of this mode.
- 7) Status lamp of scrubbing operation mode
- 8) Bottom of scrubbing operation mode (SCRUBBER)
--- Press this bottom, the main unit will enter import operation mode of scrubbing and massage.
 - a. In the other operation mode, if this bottom is turned, the main unit will switch from the other mode into import operation mode of scrubbing and massage.
 - b. If this bottom is pressed when it is already in the output status of import operation mode of scrubbing (The energy output does not display "00") , the main unit will return from output status of scrubbing into a pending status of this mode.
- 9) Bottom to switch waveform (STATE)
--- Press the bottom; the output waveform of Ultrasonic and scrubbing bar will switch amount continuous wave (∞), pulse wave (\square) and compound wave (\square).
- 10) Switch bottom of output probe (ELECT)
--- Press the bottom; Ultrasonic output can be elected amount (E) probe of eye beauty, (B) probe of body weight loss and (F) probe of facial beauty.
- 11) Status lamp (I) of galvanic anode (+) import
- 12) Switch bottom (LEAD) for galvanic positive and negative import
--- Press the bottom; galvanic positive and negative import will switch between anode ("+" that is "I") and cathode ("- that is "O").

- 13) Status lamp (O) of galvanic cathode (-) import
- 14) Bottom to shorten operation time
- 15) Display of operation time
--- Display the set operation time, available from “00” to “30” minutes.
- 16) Bottom to lengthen operation time
- 17) Output status lamp (E) for probe of eye beauty
- 18) Output status lamp (B) for probe of facial beauty
- 19) Output status lamp (F) for probe of body weight loss
- 20) Status lamp of compound wave (\sqcup)
- 21) Status lamp of pulse wave (\sqcap)
- 22) Status lamp of continuous wave (∞)
- 23) Bottom to decrease output energy
--- By turning the bottom, the output energy lessens (minimum to “10” without output)
- 24) Display of output energy (Display output energy strength, available from “00” to “10”).
- 25) Bottom to increase output energy
--- By turning the bottom, the output energy strengthens (maximum to “10”)

2. Operation Explanations

(1) Operation of Ultrasonic

- a. Well connect with power line and beauty output probe
- b. Turn on general power switch at the rear panel.
- c. Turn on switch of microcircuit “POWER”
--- At this moment, power lamp is bright, time window displays “15” min, energy output window displays “00” class. With the exception of bottoms of power switch “POWER”, ultrasonic operation mode “ULTRASONIC”, operation mode of galvanic positive and negative import “IONOS”, scrubbing operation mode, and time lengthen and shorten, all the other bottoms will be locked while the main unit is in the pending status.
- d. Turn on the bottom “ULTRASONIC” of ultrasonic operation mode.
--- At this moment, on base of pending status, the status lamp of ultrasonic operation mode is bright as well as lamps of continuous waveform, sharp probe output. Except for the locked switch bottom of galvanic positive and negative import, all the other bottoms are in the pending status. The main unit is in the pending status under ultrasonic operation mode.
- e. Set operation time up to requirement, select output probe and waveform, adjust output energy and then beauty operation can begin.

(2) Operation of Galvanic

- a. Make well connection with power line; take out rolling wheel and hand-carry static bar.
- b. Turn general power switch at the rear panel
- c. Turn on switch of microcircuit “POWER” .
--- At this moment, the main unit is in pending status.

- d. Turn on bottom of operation mode of galvanic positive and negative import “IONOS” .
 --- At this moment on base of pending status, lamp for operation mode of galvanic positive and negative import is bright. With the exception that switch bottoms of waveform “STATE” and output probe (ELECT), all the others are in pending status. The main unit is in the pending status under operation mode of galvanic positive and negative import.
- e. Set the operation time up to requirement, select anode import (“I” that is “+”) or cathode import (“O” that is “-”) , then adjust output energy so that beauty operation can begin.

(3) Operation of Scrubbing

- a. Make well connection with power line, simulative bioelectrical inductive gauntlet and scrubbing shovel.
- b. Turn on general power switch at rear panel
- c. Turn on power switch of microcircuit “POWER”
 --- At this moment, the main unit is in the pending status.
- d. Turn on bottom of scrubbing operation mode (SCRUBBER)
 --- At this moment, on base of pending status, the status lamp of scrubbing operation mode is bright as well as lamp of continuous waveform. Except for the locked switch bottoms of probe (ELECT) and galvanic positive and negative import (LEAD), all the other bottoms are in the pending status. The main unit is in the pending status under scrubbing operation mode.
- e. Set the operation time up to requirement, select output waveform, and then adjust output energy so that beauty operation can begin.

Announcements

1. Ultrasonic

- (1) Clean face (or the affected part) in prior to cure operation.
- (2) Coat enough facial cream on skin of the cured part then turn on probe in case of burn to damage the probe.
- (3) Temperature on probe does not represent power of sound output. Low grade is suitable for part of eye while middle grade is for face. If the grade is adjusted too high, it will burn the fine skin on the face. Thus the high grade is suitable for the part with thick skin.
- (4) If the cure area is small, small probe is applicable. But sound output is selected at grade 1 to 4, and time is not over 8 minutes.
- (5) Lower the grade if customer’ skin is sensitive, ask customer for no more hot feeling (It is normal that temperature on probe is a little higher that of skin). It requires light strength for sensitive skin or there will be red and swelling on the cured place, which will disappear after 10 minutes.

2. Galvanic

- (1) After operation, clean rolling wheel and metal bar, store in the dry place in case of damage to electroplate.
- (2) When negative pole is set, the pierced feeling by rolling wheel is stronger

than that the positive pole is set; on the contrary, weaker. Please select up to requirement.

- (3) At the time of cure, ask customer to take away all the jewelry and ornaments. The one who has metal materials inside the body is not suitable for the cure of galvanic positive and negative import.
- (4) The customer with sensitive skin, wounded, inflammation or telangiectasia, as well gravida is not suitable for the cure of galvanic positive and negative import.
- (5) The value of import solution must be selected in cooperation with polarity of the rolling wheel. When the rolling wheel is positive pole (I), import solution appears acid; while the rolling wheel is negative pole (O), import solution appears alkalescence. If there is no mark to show value of import solution, pH value testing paper is available for comparison and decision.

3. Skin Scrubber

- (1) Do not keep the operating scrubbing shovel motionless on a place of skin in case to hurt skin.
- (2) When there is not enough skin cure essence on surface for humidification, please supply on time.
- (3) When use a scrubbing shovel, pay attention to the strength and angle between the shovel and skin.
- (4) Do not adopt a surface deformed and disfigured stainless steel scrubbing shovel in case to hurt skin.

Warning!

1. Any patient of heart disease, infectious disease, neuroticism, or with metal items in the body during the cure is not been applicable for the instrument. Do not allow a probe in output status for too long without beauty operation or it will damage the probe.
2. A sharp probe is used for massage of eye or small place, prohibit using over grade 4.
3. Please mind the connecting line between main unit and accessories, do not pull and pick too much.
4. When operation, avoid water and other corrosive liquid splashed onto main unit.
5. If it is unusual of the instrument, please contact local sales agent and ask for repair by professional repairman. Prohibit opening the case for repair yourself.

Maintenance

Scrubbing shovel or probe must be cleaned to remove dirty things after every time of usage; then clean and sanitize all the accessories and store them in good order.