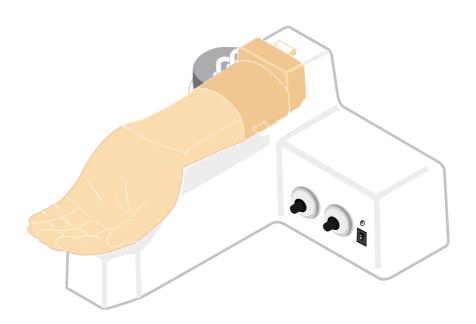
BT-CSPA

Arterial Puncture Training Model

USER'S GUIDE





Product Information

Product Name Arterial Puncture Training Model

Model Name BT-CSPA Manufacturer BT Inc.

Address A–313, Samsong Techno-valley, 140, Tongil-ro,

Deogyang-GU, Goyang-Si, Gyeonggi-do, 10594,

Republic of Korea

Certification (F F RoHS

Product Specifications

Dimensions 307 X 367 X 169mm

Weight 2.8kg

Power Converter Input AC100-240~, 50/60Hz, 0.4A, Output DC 12V, 1.5A

Battery LR6 – 8EA(AA Type, 1.5V)

Customer Service

Website www.btinc.co.kr

Address A–313, Samsong Techno–valley, 140, Tongil–ro,

Deogyang-GU, Goyang-Si, Gyeonggi-do, 10594,

Republic of Korea

Telephone +82-2-2038-2903 E-mail btinc@btinc.co.kr



Cautions for battery disposal

* Please follow the regulations of corresponding area for the disposal of used batteries

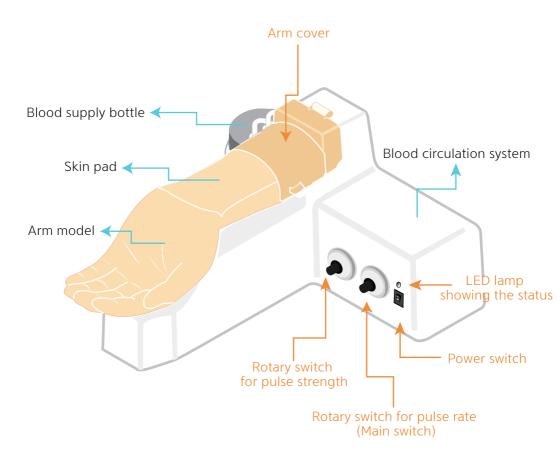
Cautions

Please read carefully to ensure correct usage and user's safety through understanding of the product.

- ① Use only components provided or approved by BT Inc.
- 2 Do not use the product for purposes other than described in the manual.
- ③ If you disassemble or modify the product without any permission by BT Inc, the warranty will be voided, Also, making imitated or altered products for commercial purposes are prohibited by law.
- ④ If the product is overheating or emits a burning odor during usage, turn off the power switch, unplug the power adaptor and call the customer service center.
- (5) Keep the product away from water and moisture area.
- 6 Do not use the product near strong magnetic fields or high voltage power lines.
- ② Do not use the product and unplug the power adapter during lightning storms.
 It can cause malfunction of the product and increase the risk of an electric shock.
- The product may malfunction under extreme weather conditions.

 (Operation temperature: 0℃~40℃ (32°F~104°F), Storage temperature: −10℃~50℃ (14°F~122°F)
- Do not keep the product near hot or cold environments as possible. Deterioration of product or internal damage may occur from extreme weather conditions.
- ® Never clean the product with chemicals such as solvent, benzene or thinner as these may cause fire ignition or surface deterioration.
- ① Do not install other programs or software to the provided tablet. It may cause software malfunction.
- BT Inc. can change or adjust the product specification without any notice in order to improve
 the product.

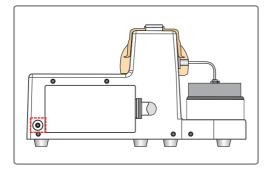
Components

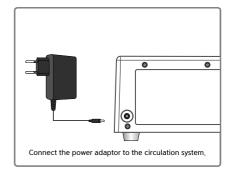


● Etc.: Power adaptor, Simulated blood, Storage case, User manual

Connecting the power supply

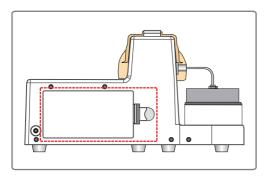
< How to connect the power adaptor >

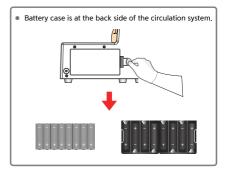




* Please use the included power adaptor.

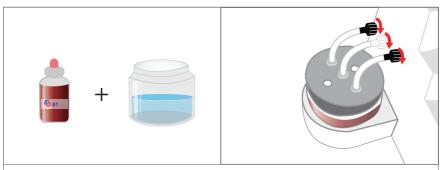
< How to Insert batteries >



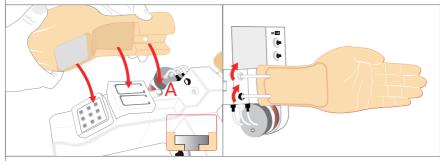


- ① Open the battery cover at the back side of the circulation system.
- ② Insert 8 batteries into the battery holder with (+) and (-) electrodes aligned.
- ③ Use the LR(AA type, 1.5V) batteries.
- * The LED lamp will flicker when the battery is low.
- * Please turn the power off before changing batteries to prevent any malfunctions.

Installation



- ① Fill the blood supply bottle half with water and add some drops of coloring to it.
- ② Place the blood supply bottle on the circulation system.
- ③ Connect all connectors as shown, (Rotate the tips until you hear a click,)

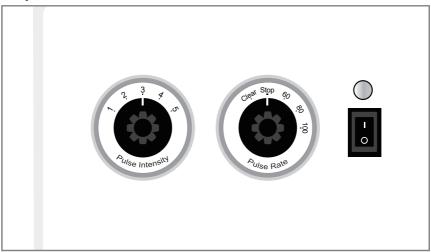


- Place the arm on the circulation system and assemble them,
 (Insert the arm fully into the round hole of the A part.)
- ⑤ Insert the skin pad into the arm and connect the tube connectors. (Rotate the tips until you hear a click,)
- 6 Place the arm cover on the arm.
- * When product is released from BT factory, the skin pad is already connected to the arm.



- ⑦ Connect the power adapter. (Please refer to "How to connect the power supply" page.)
- ® The model is ready to be used.

Operation



- 1) Make sure the power is being supplied.
- ② Turn the power on.
- ③ Set the pulse rate switch(Main switch) to the value that you want to practice.
 - * 3 stages: 60, 80, 100 BPM
 - * Circulate the blood about 3 seconds so that the blood can be filled to the vein.
- 4 Set the pulse strength switch for the trainer.
 - * 5 stages : 1(Min.) ~ 5(Max.)
- (5) Proceed the training.
- 6 After training, set the pulse rate switch to STOP.
 - * The circulation system will work about 5 seconds to collect the blood inside of vein.
- ⑦ Clear function: Operated manually, please refer to the "Maintenance" page.

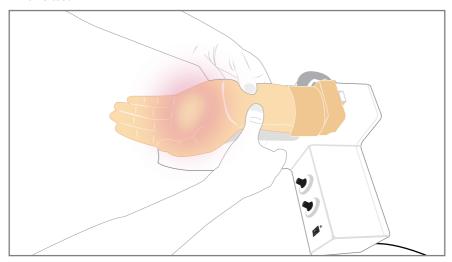
< LED lamp showing the status >

Status of system	LED lamp showing the status	Lamp
Power ON	Red light ► Green light ► Blue light ON	•
Set pulse rate switch to 60/80/100	Blue light flickering 3 seconds and ON	≥ ► •
Set pulse rate switch to Stop	Green light flickering 5 seconds and Blue light ON	△
Set pulse rate switch to Clear	Green light ON	
Low battery	Red light flickering	<u>**</u>

* The LED lamp will flicker when the battery is low. Turn the power off and change the batteries.

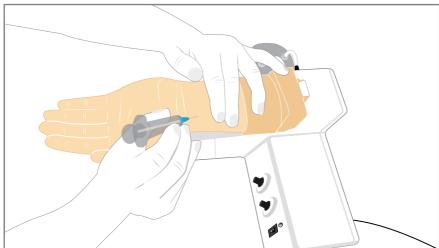
Function

<Allen's test>



- Perform Allen test with the model.
- You can check the color of palm is changing.

<arterial Puncture Training>

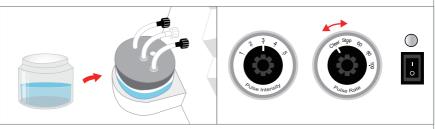


- Find the radial artery and perform the arterial puncture.
- You can check the back flow of blood due to arterial pressure.

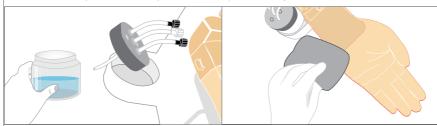
Maintenance



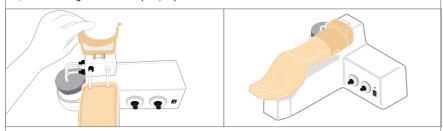
- 1) Set the pulse rate switch to STOP.
- ② Disassemble the blood supply bottle from the circulation system and wash it.



- ③ Fill the blood supply bottle half with water and re-connect it to the system.
- 4 Set the pulse rate switch to CLEAR.
- ⑤ After cleaning the vein enough, set the rotary switch for pulse rate to STOP.

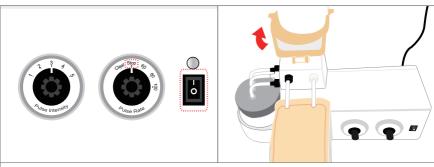


- ⑥ Disassemble the blood supply bottle from the circulation system and wash it, (Repeat ②~⑥ steps 2~3 times.)
- ② After taking out the skin pad, wipe the arm with a clean soft cloth.

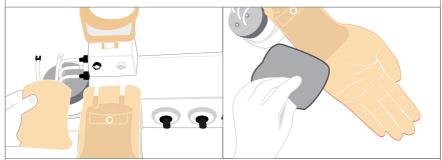


- ® Re-place the blood supply bottle and skin pad on the circulation system.
- Turn the power off and disconnect the power adaptor.
- 10 Store in a storage place.

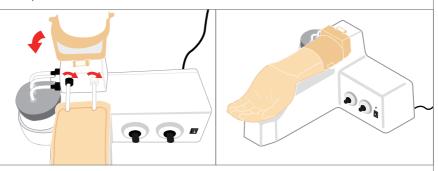
Replacement of the skin pad



- ① Set the pulse rate switch to STOP.
- 2) Turn the power off. (Do not try to replace the skinpad while the power is on.)
- ③ Open the arm cover.



- ④ Disconnect the tube connectors and take the skin pad out.
- ⑤ Wipe the arm with a clean soft cloth.



- 6 Prepare the new skin pad.
- Insert the skin pad into the arm and connect the tube connectors, (Rotate the tips until you hear a click,)
- (8) Replace the arm cover.
- The model is ready to be used.

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