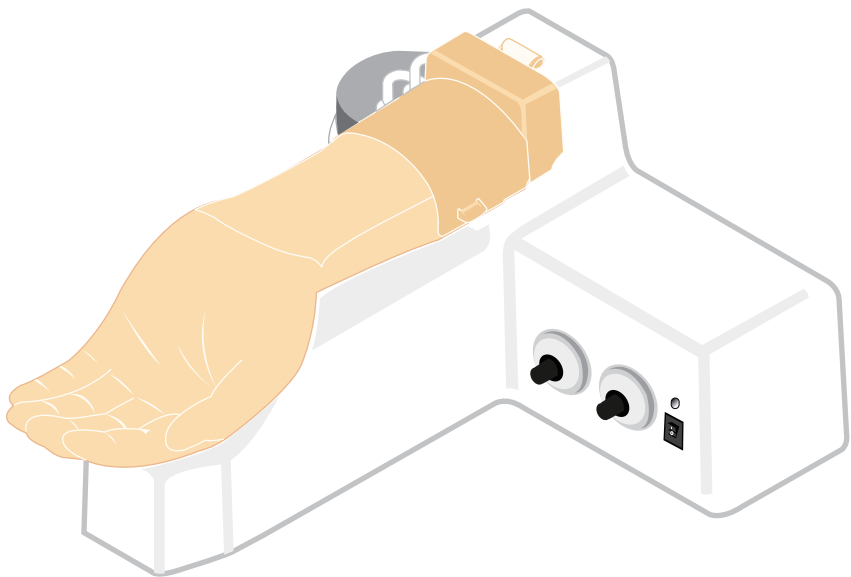


BT-CSPA

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, Samsung Techno-valley, 140, Tongil-ro, Deogyang-GU, Goyang-Si, Gyeonggi-do, 10594, Republic of Korea
Certification	CE FC 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, Samsung 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

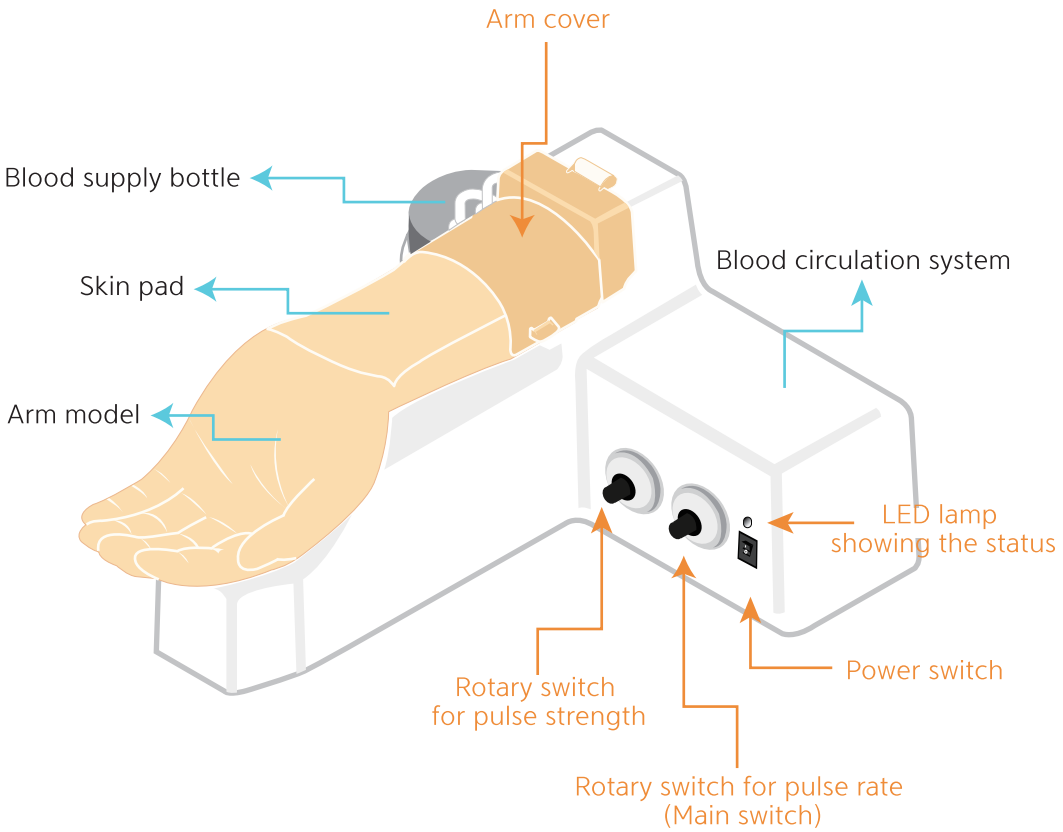
- ※ Please follow the regulations of corresponding area for the disposal of used batteries.

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.
- ⑦ 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.
- ⑧ The product may malfunction under extreme weather conditions.
(Operation temperature : 0°C~40°C (32°F~104°F), Storage temperature : -10°C~50°C (14°F~122°F))
- ⑨ Do not keep the product near hot or cold environments as possible. Deterioration of product or internal damage may occur from extreme weather conditions.
- ⑩ Never clean the product with chemicals such as solvent, benzene or thinner as these may cause fire ignition or surface deterioration.
- ⑪ Do not install other programs or software to the provided tablet.
It may cause software malfunction.
- ⑫ BT Inc. can change or adjust the product specification without any notice in order to improve the product.

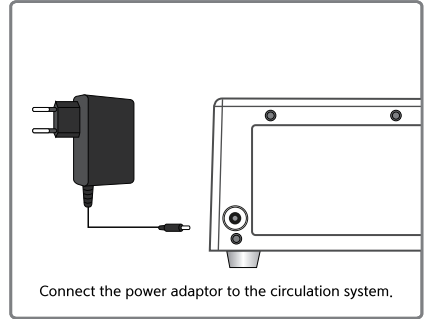
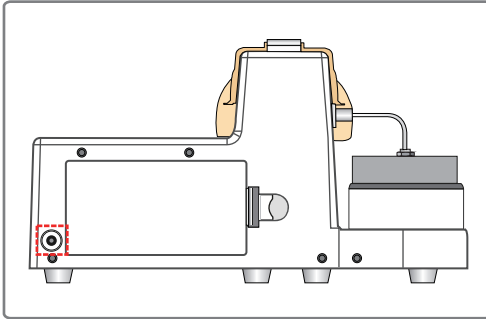
Components



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

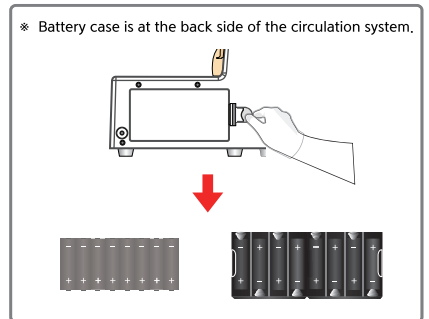
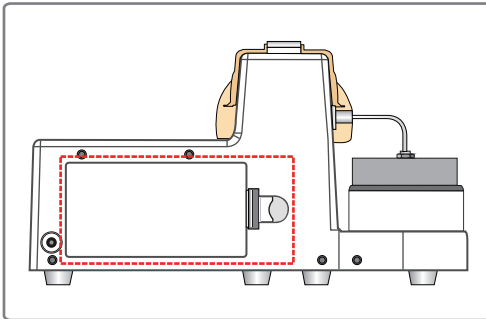
Connecting the power supply

< How to connect the power adaptor >



※ Please use the included power adaptor.

< How to Insert batteries >

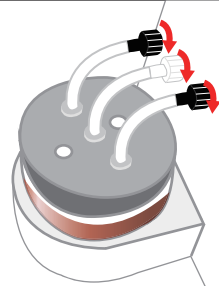


- ① Open the battery cover at the back side of the circulation system.
- ② Insert 8 batteries into the battery holder with (+) and (-) electrodes aligned.
- ③ Use the LR(AA type, 1.5V) batteries.

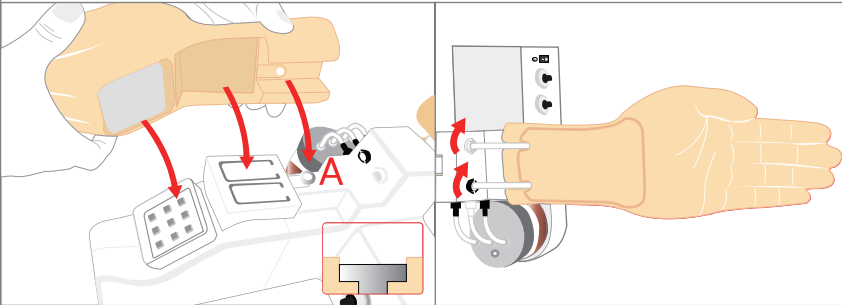
※ The LED lamp will flicker when the battery is low.

※ Please turn the power off before changing batteries to prevent any malfunctions.

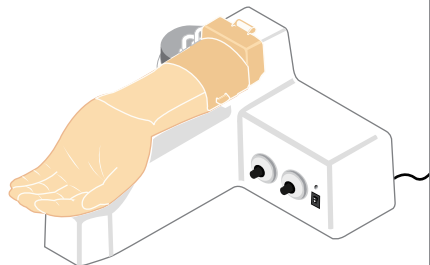
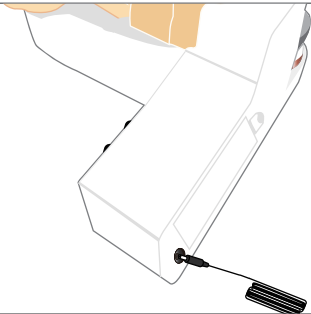
Installation



- 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.)

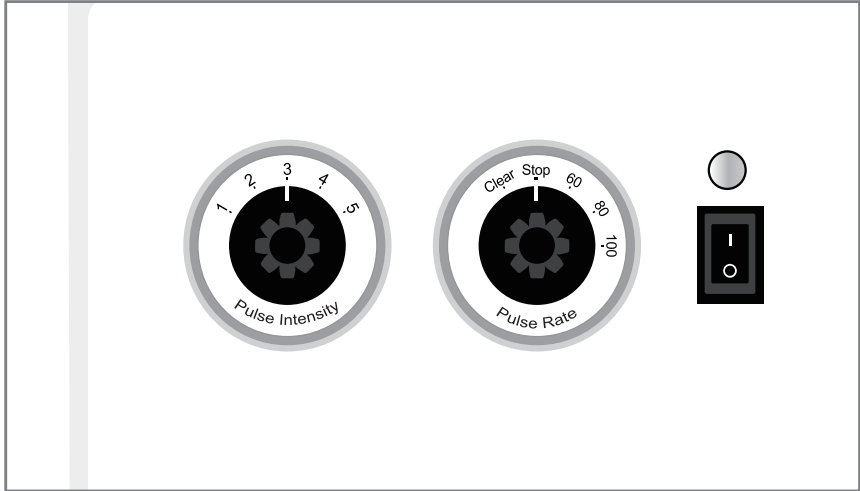


- ④ Place the arm on the circulation system and assemble them.
(Insert the arm fully into the round hole of the A part.)
- ⑤ Insert the skin pad into the arm and connect the tube connectors.
(Rotate the tips until you hear a click.)
- ⑥ Place the arm cover on the arm.
※ When product is released from 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.)
- ⑧ 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.

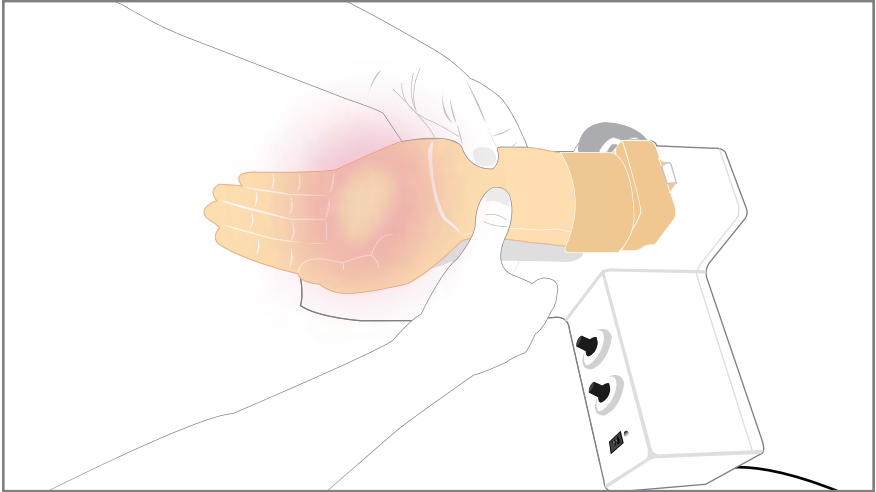
< LED lamp showing the status >

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	

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

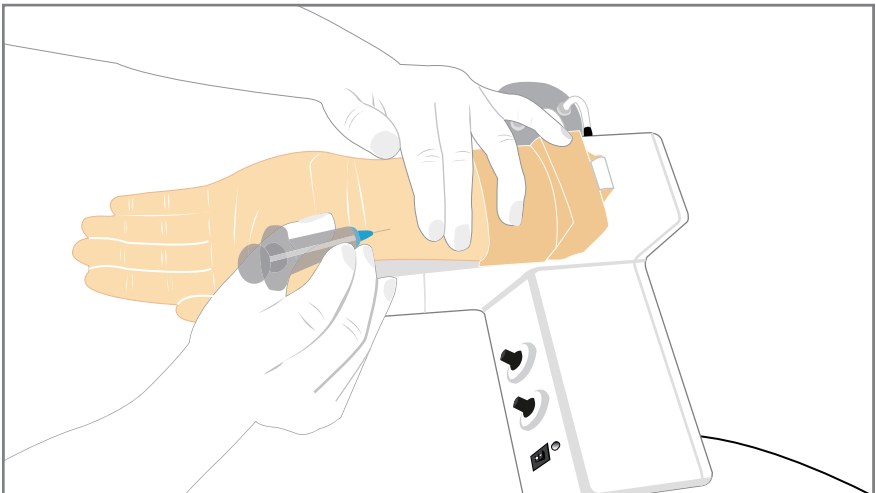
Function

<Allen's test>



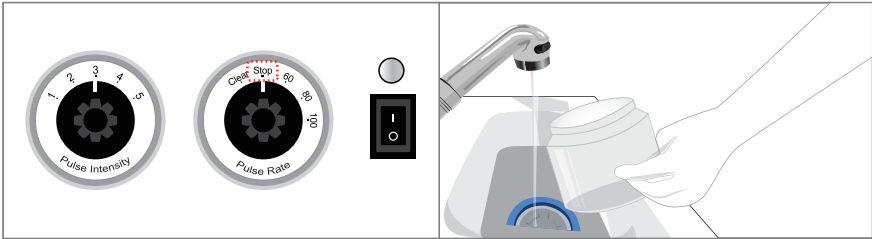
- Perform Allen test with the model.
- You can check the color of palm is changing.

<Arterial Puncture Training>

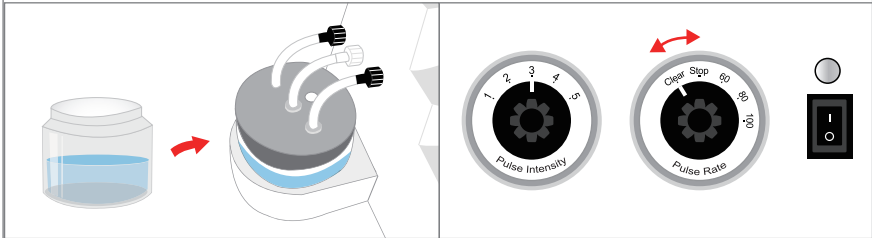


- Find the radial artery and perform the arterial puncture.
- You can check the back flow of blood due to arterial pressure.

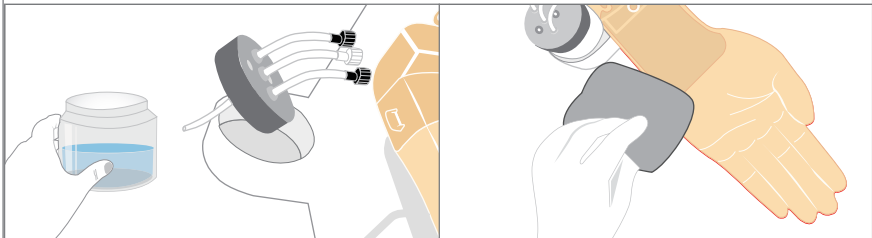
Maintenance



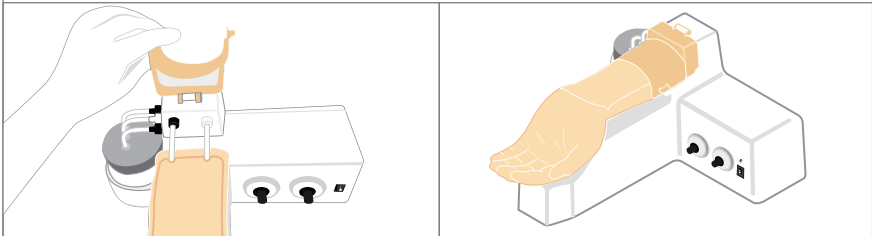
- ① Set the pulse rate switch to STOP.
- ② Disassemble the blood supply bottle from the circulation system and wash it.



- 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.

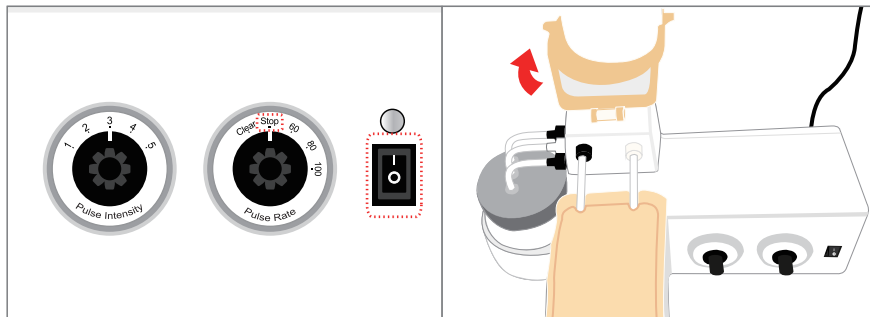


- ⑥ Disassemble the blood supply bottle from the circulation system and wash it.
(Repeat ②~⑥ steps 2~3 times.)
- ⑦ After taking out the skin pad, wipe the arm with a clean soft cloth.

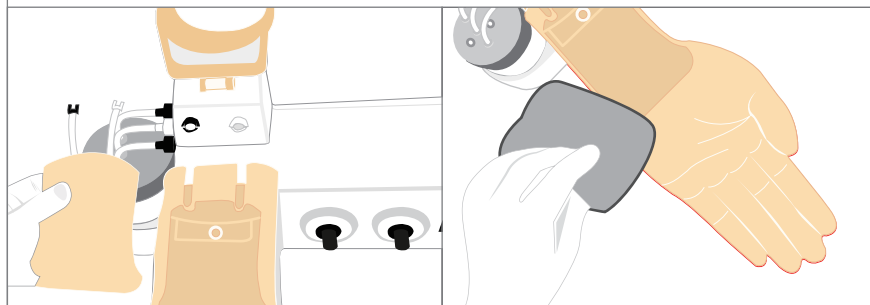


- ⑧ Re-place the blood supply bottle and skin pad on the circulation system.
- ⑨ Turn the power off and disconnect the power adaptor.
- ⑩ Store in a storage place.

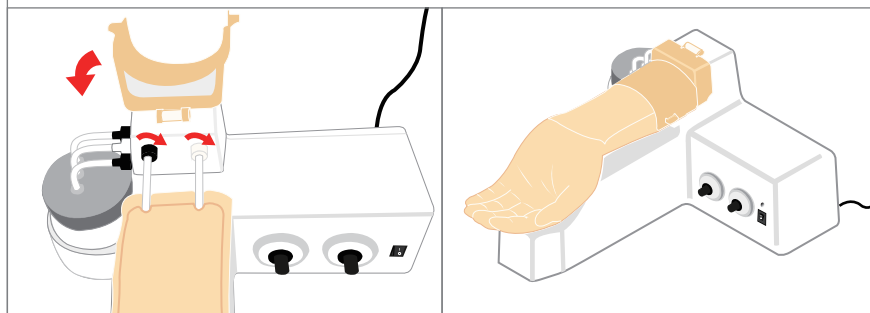
Replacement of the skin pad



- 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.
- ⑦ 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.
- ⑨ The model is ready to be used.

Arterial Puncture Training Model

BT-CSPA

A-313, Samsung Techno-valley, 140, Tongil-ro,
Deogyang-gu, Goyang-si, Gyeonggi-do, 10594, Republic of Korea
Homepage: www.btinc.co.kr / E-mail: btinc@btinc.co.kr
Tel: +82-2-2038-2903, +82-51-903-1144 / Fax: +82 303-3130-0607

Copyright(c) BT Inc. All rights reserved.