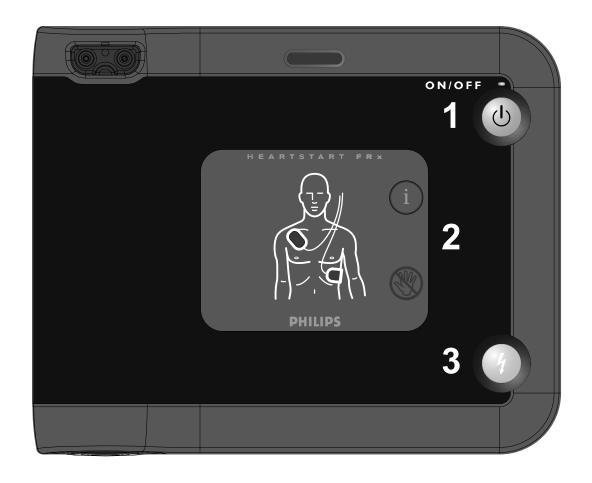
HEARTSTART FRx DEFIBRILLATOR

OWNER'S MANUAL



861304 Edition 13

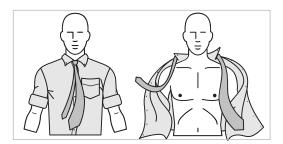




STEP I: PRESS THE GREEN ON/OFF BUTTON

Press the On/Off button (b) to turn on the FRx.

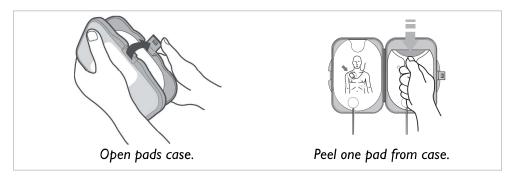
The FRx tells you to remove all clothes from the person's chest. If necessary, rip or cut off the clothing to bare the person's chest.



STEP 2: FOLLOW THE FRX'S VOICE INSTRUCTIONS

Remove the SMART Pads II case from the carry case. Clean and dry the patient's skin, and, if necessary, clip or shave excessive chest hair to ensure good pads contact with the bare skin.

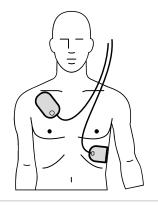
Open the pads case as shown below. Peel off one pad.

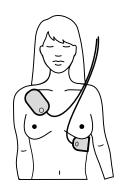




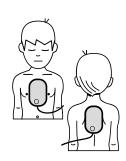
Pads placement is very important. The icons on the pads placement diagram on the FRx front panel will be flashing, to help guide you. Place the pad on the patient's bare skin exactly as shown in the following drawing. Press the adhesive portion of the pad down firmly. Then repeat this with the other pad.

Where to place pads on adults and children over 55 pounds (25 kg) or 8 years old (anterior-anterior).





Where to place pads on infants or children under 55 pounds (25 kg) or 8 years old (anterior-posterior).



STEP 3: PRESS THE FLASHING ORANGE SHOCK BUTTON IF INSTRUCTED

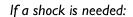
As soon as the FRx detects that the pads are attached to the patient, the pads icons turn off. The FRx begins analyzing the patient's heart rhythm. It tells you that no one should be touching the patient, and the Caution light begins flashing as a reminder.

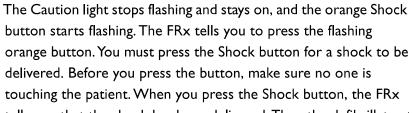


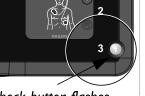
Caution light

Shock

button





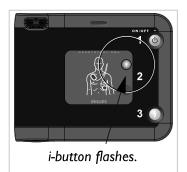


Shock button flashes.

tells you that the shock has been delivered. Then the defibrillator tells you it is safe to touch the patient, instructs you to begin CPR, and invites you to press the flashing blue i-button for CPR Coaching if desired.

If a shock is not needed:

The i-button comes on solid, to show that it is safe to touch the patient. The FRx also tells you to perform CPR if needed. (If CPR is not needed – for example, if the patient is moving or regaining consciousness – follow your local protocol until emergency medical personnel arrive.) Then the FRx invites you to press the flashing blue i-button for CPR Coaching if desired.



For CPR Coaching:

Press the flashing blue i-button during the first 30 seconds of the patient care pause to activate CPR Coaching.* (If the Infant/Child Key is inserted, the CPR Coaching provided will be for infant/child CPR.) When the pause is over, the defibrillator tells you to stop



CPR, so it can analyze the patient's heart rhythm. The motion caused by CPR can interfere with analysis, so be sure to stop all motion when instructed.

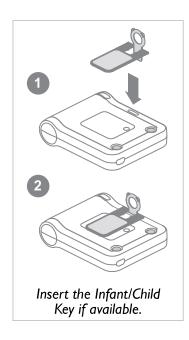
TREATING INFANTS AND CHILDREN

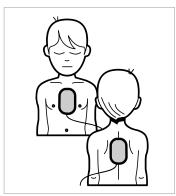
WARNING: Most cardiac arrests in children are not caused by heart problems. When responding to cardiac arrest in an infant or child:

- Provide infant/child CPR while a bystander calls EMS and brings the FRx.
- If no bystander is available, provide I-2 minutes of CPR before calling EMS and retrieving the FRx.
- If you witnessed the child's collapse, call EMS immediately and then get the FRx.

Alternatively, follow your local protocol.

^{*} The default configuration for the FRx provides CPR Coaching when you press the i-button in this situation; however, the default setting can be revised by your Medical Director using Philips software available separately. See Appendix F for more information.





If the victim is under 55 pounds (25 kg) or 8 years old, and you have an Infant/ Child Key:

- Insert the Infant/Child Key into the slot at the top center of the front panel of the FRx (see illustration at left). The pink portion of the Key pivots (I) and fits into the slot (2), with the front of the Key lying flat on the surface of the FRx so the infant/child pads placement diagram is visible. (The back of the Infant/Child Key also has a diagram showing how to insert it.)
- Turn on the FRx and follow instructions to remove all clothing from the torso, to bare both the chest and the back.
- Place the pads on the child's front and back, as illustrated. It does not matter which pad is placed on the chest or the back.

NOTE: It does not matter whether you insert the Infant/Child Key before or immediately after turning on the FRx. However, the Key should be inserted before placing the pads on the patient.

With the Infant/Child Key inserted, the FRx will announce "Infant/ Child Mode," automatically reduce the defibrillation energy from the adult dose of 150 Joules to 50 Joules,* and provide optional infant/ child CPR Coaching.

If the Infant/Child Key is removed during use, the FRx will announce "Adult Mode." Any shocks delivered will be at adult energy, and optional CPR Coaching will be for adult CPR.

If the victim is under 55 pounds (25 kg) or 8 years old, but you do NOT have an Infant/Child Key:

- DO NOT DELAY TREATMENT.
- Turn on the FRx and follow instructions to remove all clothing from the torso, to bare both the chest and the back.
- Place the one pad in the center of the chest between the nipples, and the other in the center of the back (anterior-posterior).

^{*} This lower energy level may not be effective for treating an adult.

If the victim is over 55 pounds (25 kg) or 8 years old, or if you are not sure of the exact weight or age:

- DO NOT DELAY TREATMENT.
- Turn on the FRx without inserting the Key and follow instructions to remove all clothing from the chest.
- Place the pads as illustrated on each pad (anterior-anterior). Make sure the pads do not overlap or touch each other.

WHEN EMERGENCY MEDICAL SERVICES ARRIVE

When Emergency Medical Services (EMS) personnel arrive to care for the patient, they may decide to apply another defibrillator to allow monitoring of the patient. Depending on their equipment, the EMS team may apply different pads. In that case, the SMART Pads II should be removed. EMS personnel may want a summary of the last-use data* stored in the FRx. To hear the summary data, hold down the i-button until the FRx beeps.

NOTE: After the EMS team removes the SMART Pads II from the patient, remove the Infant/Child Key, if used, and install a new pads set before returning the FRx to service, to be sure it is ready for use.

REMINDERS

- Remove any medicine patches and residual adhesive from the patient's chest before applying the pads.
- Do not place the pads directly over an implanted pacemaker or defibrillator.
 A noticeable lump with a surgical scar should indicate the position of an implanted device.
- Do not allow the pads to contact other electrodes or metal parts that are in contact with the patient.
- If the pads do not stick well, check that the pads adhesive has not dried out. Each pad has a layer of adhesive gel. If the gel is not sticky to the touch, replace the pads with a new set. (For ease of handling, the pad is designed with a non-gel area around the connector cable.)

^{*} See Chapter 4, "After Using the HeartStart FRx," for details about data storage.

- Keep the patient still and keep any movement around the patient to a minimum during rhythm analysis. Do not touch the patient or the pads while the Caution light is on solid or flashing. If the FRx is unable to analyze due to electrical "noise" (artifact), it will tell you to stop all movement and remind you not to touch the patient. If the artifact continues for more than 30 seconds, the FRx will pause briefly to allow you to deal with the source of the noise, then resume analysis.
- The FRx will only deliver a shock if the flashing orange Shock button is pressed when the instruction is given. If the Shock button is not pressed within 30 seconds after the instruction, the FRx will disarm itself, and (for the first CPR interval) give a reminder to make sure emergency medical services have been called, then begin a CPR interval. This is designed to minimize interruption of CPR and help ensure ongoing patient support.
- While waiting for you to press the Shock button, the FRx will continue to analyze the heart rhythm. If the patient's rhythm changes before you press the Shock button, and a shock is no longer needed, the defibrillator will disarm and tell you a shock is not advised.
- If for any reason you want to turn off the defibrillator during a use, you can
 press the On/Off button holding it down for at least one second to
 return the device to standby mode.