

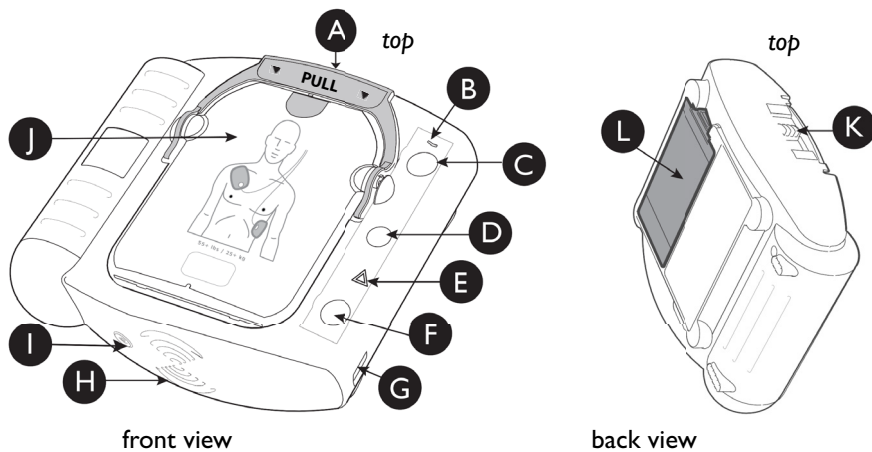
# HeartStart Home Defibrillator

Instructions For Use



M5068A  
Edition 11

# PHILIPS



## The HeartStart Home Defibrillator M5068A

### **A** Pads Cartridge Handle.

Pull the handle to turn on the HeartStart Home and remove the cartridge's hard cover.

### **B** Ready Light. This green light tells you the readiness of the HeartStart Home.

Blinking: standby mode  
(ready for use)

Solid: in use

Off: needs attention  
(HeartStart Home  
"chirps" and  
i-button flashes)

### **C** On/Off Button. Press this green button to turn on the HeartStart Home. To turn off the HeartStart Home, press the green button again and hold it down for one (1) second.

### **D** Information Button. This "i-button" flashes blue when it has information you can access by pressing it. It also flashes at the beginning of a patient care pause when CPR guidance is enabled.

### **E** Caution Light. This triangular light flashes during rhythm analysis and is on when a shock is advised, as a reminder that no one should be touching the patient.

### **F** Shock Button. When instructed by the HeartStart Home to deliver a shock, press this flashing orange button .

### **G** Infrared (IR) Communications Port. This special lens, or "eye," is used to transfer HeartStart Home data directly to or from a computer.

### **H** Speaker. When the device is being used, its voice instructions come from this speaker.

### **I** Beeper. The HeartStart Home "chirps" through this beeper to alert you when it needs attention.

### **J** SMART Pads Cartridge. This disposable cartridge contains self-adhesive pads with attached cable. Shown with adult HeartStart pads cartridge.

### **K** SMART Pads Cartridge Latch. Slide the latch to the right to release the pads cartridge for replacement.

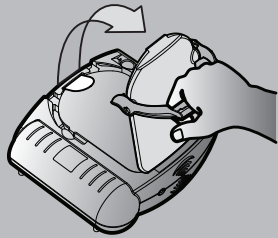
### **L** Battery. The non-rechargeable battery is inserted in a recess on the back of the HeartStart Home.

# HeartStart Home Defibrillator

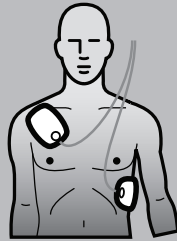
## QUICK REFERENCE

Check for signs of Sudden Cardiac Arrest:  Unresponsive  
 Not Breathing Normally

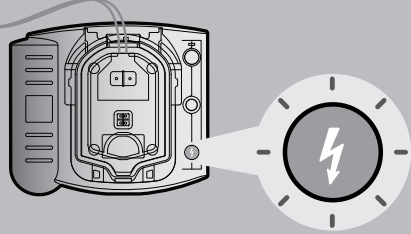
**1 PULL**



**2 PLACE**



**3 PRESS**



## 3 USING THE HEARTSTART HOME

**IMPORTANT NOTE:** Be sure to read the WARNINGS and CAUTIONS throughout this manual as well as in Section I.

**WARNING:** Do not use or stack the Home unit with other equipment. If the unit is used or stacked with other equipment, verify proper operation prior to use.

### OVERVIEW

If you think someone is in SCA, act quickly and calmly.

- If the patient is an infant or child, first perform CPR, then call for emergency medical services (EMS) before you apply the HeartStart Home. See the special section on treating infants and children.
- Call your emergency services provider. *If someone else is available*, ask him or her to call for emergency medical assistance while you get the HeartStart Home.
- Quickly get the HeartStart Home and bring it to the victim's side. If there is any delay in getting the defibrillator, check the patient and perform cardiopulmonary resuscitation (CPR) if needed until the HeartStart Home is available.
- It is safe to use the HeartStart Home Defibrillator on a patient lying on a wet surface. Before doing so, remove the patient from standing water, such as a pool or bathtub. It is also safe to use the HeartStart Home Defibrillator on a patient lying on a conductive surface, such as a metal surface. It is important to dry the patient's chest completely, so that the pads stick well to the dry, bare skin.
- Check the immediate environment for flammable gases. Do not use the HeartStart Home in the presence of flammable gases, such as an oxygen tent. However, it is safe to use the HeartStart Home on someone wearing an oxygen mask.

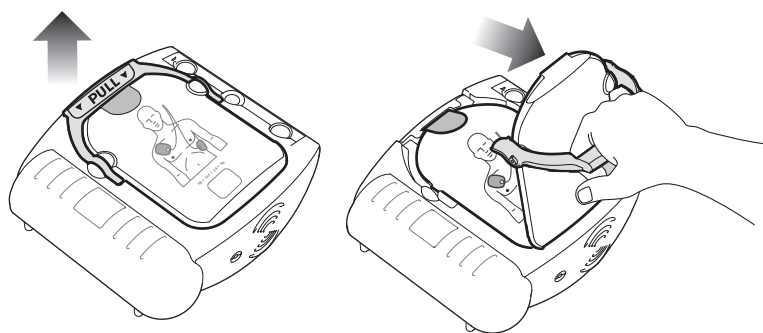
There are three basic steps to using the HeartStart Home to treat someone who may be in sudden cardiac arrest:

1. PULL up the handle on the SMART Pads Cartridge.
2. PLACE the pads on the patient's bare skin.
3. PRESS the flashing Shock button ⚡ if instructed.

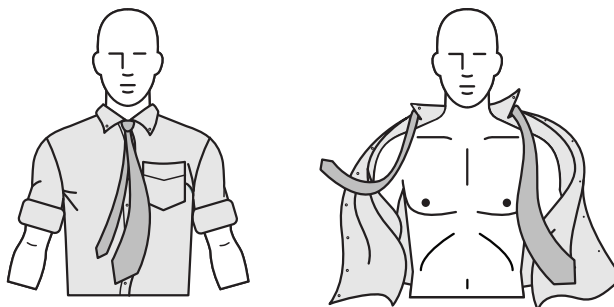
The following pages provide details about each step.

## STEP 1: PULL THE GREEN HANDLE

Turn on the HeartStart Home by pulling the SMART Pads Cartridge's green handle. \* Remove the hard cover from the pads cartridge and set it aside. Remain calm and follow the HeartStart Home's instructions.



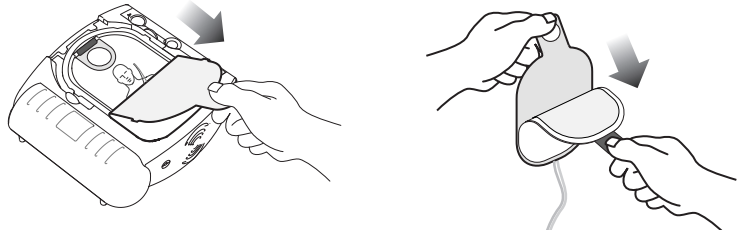
The HeartStart Home starts by directing you to remove all clothes from the patient's chest. If necessary, rip or cut off the clothing to bare the person's chest



\* You can also turn on the HeartStart Home by pressing the green On/Off button.

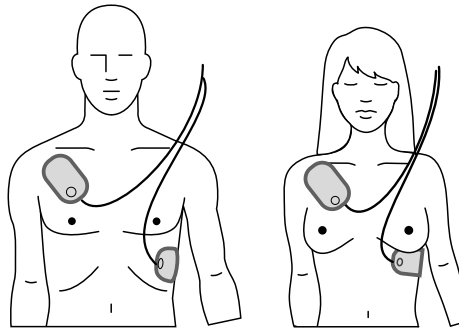
## STEP 2: PLACE THE PADS

Pull the tab at the top of the pads cartridge to peel off the film seal. Inside are two adhesive pads on a plastic liner. Remove the pads from the cartridge.

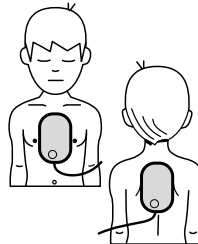


Peel one pad off the liner. Place the pad on the patient's bare skin, *exactly as shown in the picture on the pad*. Press the pad down firmly. Then repeat this with the other pad. Be sure the pads have been removed from the liner before placing them.


*Where to place pads on adults (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 SHOCK BUTTON

As soon as the HeartStart Home detects that the pads are attached to the patient, it 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.


*If a shock is needed:*

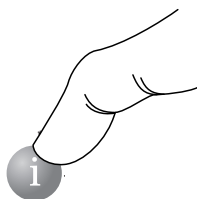
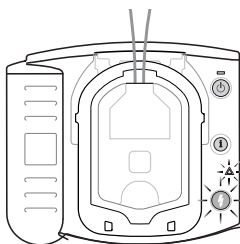
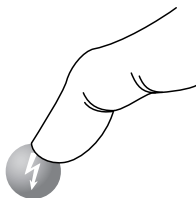
The Caution light  goes from flashing to solid, the orange Shock button  starts flashing, and the HeartStart Home tells you to press the flashing orange button. Before you press the button, make sure no one is touching the patient. When you press the Shock button, the HeartStart Home tells you that the shock has been delivered. Then the HeartStart Home 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 guidance if desired.

*If a shock is not needed:*

The HeartStart Home tells you it is safe to touch the patient and instructs 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 HeartStart Home invites you to press the flashing blue i-button  for CPR guidance, if desired.

*For CPR guidance:*

Press the flashing blue i-button  during the first 30 seconds of the patient care pause to activate CPR guidance.\* (If the Infant/Child SMART Pads Cartridge is inserted, CPR guidance will provide guidance for infant/child CPR.) When the pause is over, the HeartStart Home 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.



\* The default configuration for the HeartStart Home provides CPR guidance 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 E for more information.

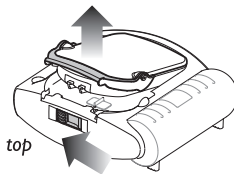
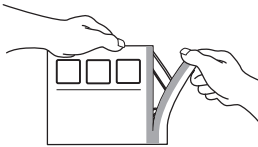
## TREATING INFANTS AND CHILDREN

**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 HeartStart Home.
- If no bystander is available, provide 1-2 minutes of CPR before calling EMS and retrieving the HeartStart Home.
- If you witnessed the child's collapse, call EMS *immediately* and *then* get the HeartStart Home.

Alternatively, follow your local protocol.

*If the patient is under 55 pounds (25 kg) or 8 years old, and you have an infant/child SMART Pads Cartridge:*



- Remove the Infant/Child SMART Pads Cartridge from its package.\*
- Locate the latch at the top edge of the defibrillator, and slide it to the side. Any installed SMART pads cartridge will be released. Remove the old cartridge.
- Install the new infant/child SMART Pads Cartridge: slide the bottom end of the cartridge into the recess, then press in the cartridge until the latch clicks into place. Be sure the green handle is pressed down firmly. The HeartStart Home will tell you that infant/child pads have been inserted, then it will turn off to be ready for use.
- Pull the green handle to start the rescue.
- Remove all clothing from the upper body, to bare both the chest and the back. Place one pad in the center of the chest between the nipples, and the other in the center of the back (anterior-posterior).

With the infant/child SMART Pads Cartridge inserted, the HeartStart Home automatically reduces the defibrillation energy from the adult dose of 150 Joules to 50 Joules<sup>†</sup> and provides optional infant/child CPR guidance. Place the pads exactly as shown on the illustration on the pads.

\* Philips recommends that the HeartStart Home be stored with an adult pads cartridge installed, as pediatric cardiac arrest is not common.

† This lower energy level may not be effective for treating an adult.



*If the patient is under 55 pounds (25 kg) or 8 years old, but you do NOT have an infant/child SMART Pads Cartridge:*

- DO NOT DELAY TREATMENT.
- Remove all clothing from the torso, to bare both the chest and the back.
- Apply the HeartStart Home using the adult SMART pads cartridge, but place one pad in the center of the chest between the nipples, and the other in the center of the back (anterior-posterior).

*If the patient 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.
- Remove all clothing from the chest.
- Apply the HeartStart Home using the adult SMART pads cartridge, and place the pads as illustrated on the pads (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. The SMART Pads should be removed from the patient prior to using another defibrillator. EMS personnel may want a summary of the last-use data\* stored in the HeartStart Home. To hear the summary data, hold down the i-button until the HeartStart Home beeps.

**NOTE:** After the EMS team removes the SMART Pads from the patient, remove the used SMART pads cartridge, and insert a new SMART pads cartridge before returning the HeartStart Home to service, to be sure it is ready for use.

\* See Chapter 4, “After Using the HeartStart Home” for details about data storage.

## REMINDERS

- Remove any medicine patches and residual adhesive from the patient's chest before applying the pads.
- Do not allow the pads to contact other electrodes or metal parts that are in contact with the patient.
- Avoid placing the pads directly over an implanted pacemaker or defibrillator. A noticeable lump with a surgical scar should indicate the position of an implanted device.
- 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.
- 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 HeartStart Home 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 HeartStart Home will pause briefly to allow you to deal with the source of the noise, then resume analysis.
- The HeartStart Home will not deliver a shock unless you press the flashing orange Shock button. If you do not press the Shock button within 30 seconds after the HeartStart Home tells you to, it 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 HeartStart Home 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.