
4 After using the HeartStart FRx

After each use

1. Check the outside of the FRx for signs of damage, dirt, or contamination. If you see signs of damage, contact Philips for technical support. If the defibrillator is dirty or contaminated, clean it according to the guidelines in Chapter 5, “Maintaining the HeartStart FRx.”
2. Plug the cable connector for a new set of SMART Pads II into the FRx (do not open the pads case). Check supplies and accessories for damage and expiration dates. Replace any used, damaged or expired items. For directions on changing the pads and replacing the battery, please see Chapter 2, “Setting Up the HeartStart FRx.” The single-use pads must be replaced after being used.
3. Unless your protocol requires that the battery remain installed, remove the battery for five seconds, then reinstall it to run the battery insertion self-test to check the operation of the defibrillator.* When the test is complete, check that the green Ready light is blinking.
4. Return the FRx to its storage location so it will be ready for use when needed.

* If you leave the battery in the FRx after using the defibrillator, then transfer the last-use data to a computer running HeartStart Event Review software, the software will calculate the local date and time of the device use. However, if you remove the battery prior to transferring the data, the software will only show elapsed time.

FRx data storage

The FRx automatically stores data about its last clinical use in its internal memory. The stored data can be conveniently transferred to a personal computer or a handheld computer running the appropriate application in the Philips HeartStart Event Review data management software suite. Event Review software is for use by trained personnel only. Information about HeartStart Event Review is available online www.medical.philips.com/goto/eventreview.

Follow your local protocol with regard to prompt data transfer for medical review after using the FRx.* Details about data transfer and timing are provided in Event Review documentation.

The information automatically stored by the FRx includes a summary of last-use data and detailed data about its last clinical use. You can get a voice summary of information about the last use of the defibrillator by holding the i-button down until it beeps once. The FRx will tell you how many shocks were delivered and how long it has been since it was turned on. Summary data are available anytime the defibrillator is ready for use (the battery and pads are installed, and the defibrillator is not turned on) or while it is actually in use. Removing the battery erases the summary data for the last use.

Last-use data stored in internal memory include:

- ECG recordings (a maximum of 15 minutes following pads application†)

* The FRx automatically stores information about its last clinical use in its internal memory for at least 30 days, so the data can be downloaded to a computer running appropriate Event Review software. (If the battery is removed during this period, the defibrillator retains the files. When the battery is reinstalled, the last-use ECG recording will be kept in defibrillator memory for an additional 30 days.) After this time, the last-use ECG recordings will automatically be erased to prepare for a future use.

† If ECG recordings from a previous use have not been erased, the maximum time for new ECG recordings may be less.

- the FRx's status (entire incident)
- the FRx's rhythm analysis decisions (entire incident)
- the elapsed time associated with stored events (entire incident)

5 Maintaining the HeartStart FRx

Routine maintenance

The FRx is very simple to maintain. The defibrillator performs a self-test every day. In addition, a battery insertion self-test is run whenever a battery is installed in the device. The defibrillator's extensive automatic self-test features eliminate the need for any manual calibration.

WARNING: *Electrical shock hazard.* Do not open the FRx, remove its covers, or attempt repair. There are no user-serviceable components in the FRx. If repair is required, return the FRx to an authorized service center.

Reminders:

- Do not leave the defibrillator without a set of pads connected; the defibrillator will start chirping and the i-button will start flashing.
- Do not store the FRx with the Infant/Child Key installed.
- The FRx runs daily self-tests. As long as the green Ready light is blinking, it is NOT necessary to test the defibrillator by initiating a battery insertion self-test. This uses battery power and risks draining the battery prematurely.

Periodic checks

Other than the checks recommended after each use of the FRx, maintenance is limited to periodically checking the following:

- Check the green Ready light. If the green Ready light is not blinking, see Troubleshooting Tips, below.
- Replace any used, damaged or expired supplies and accessories.
- Check the outside of the defibrillator. If you see cracks or other signs of damage, contact Philips for technical support.

Cleaning the FRx

The outside of the HeartStart FRx can be cleaned with a soft cloth dampened in soapy water, chlorine bleach (2 tablespoons per quart or liter of water), ammonia-based cleaners, or 70% isopropyl (rubbing) alcohol. It is recommended that the carry case be cleaned with a soft cloth dampened in soapy water.

Reminders:

- Do not use strong solvents such as acetone or acetone-based cleaners, abrasive materials, or enzymatic cleaners to clean the FRx and accessories.
- Do not immerse the FRx in fluids. Do not sterilize the FRx or its accessories.

Disposing of the FRx

The FRx and its accessories should be disposed of in accordance with local regulations.

Troubleshooting tips

The FRx's green Ready light is your guide to knowing if the defibrillator is ready for use.

- If the Ready light is blinking: The FRx has passed the battery insertion self-test and the last periodic self-test and is therefore ready for use.
- If the Ready light is solid: The FRx is in use or running a self-test.
- If the Ready light is off, the FRx is chirping, and the i-button is flashing: A self-test error has occurred, there is a problem with the pads, the Infant/Child Key has been left installed, or the battery power is low. Press the i-button for instructions.
- If the Ready light is off but the FRx is not chirping and the i-button is not flashing: there is no battery inserted, the battery is depleted, or the defibrillator needs repair. Insert/replace battery and run the self-test. As long as the FRx passes the self-test, you can be assured it is ready for use.

More detailed testing and troubleshooting information is available in Appendix G.