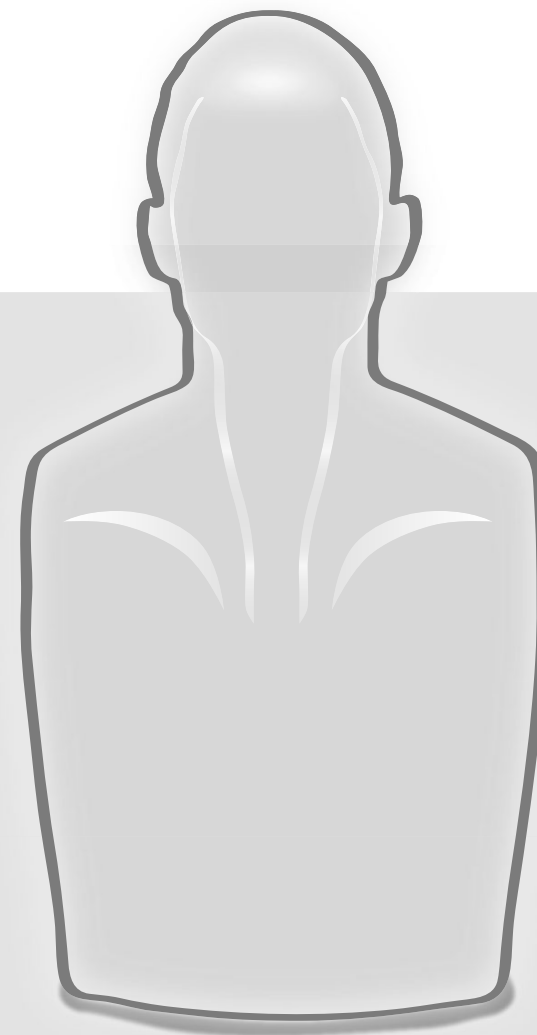


CPR Training Manikin

BRAVDEN

English

Instructions for Use



INNOSONIAN

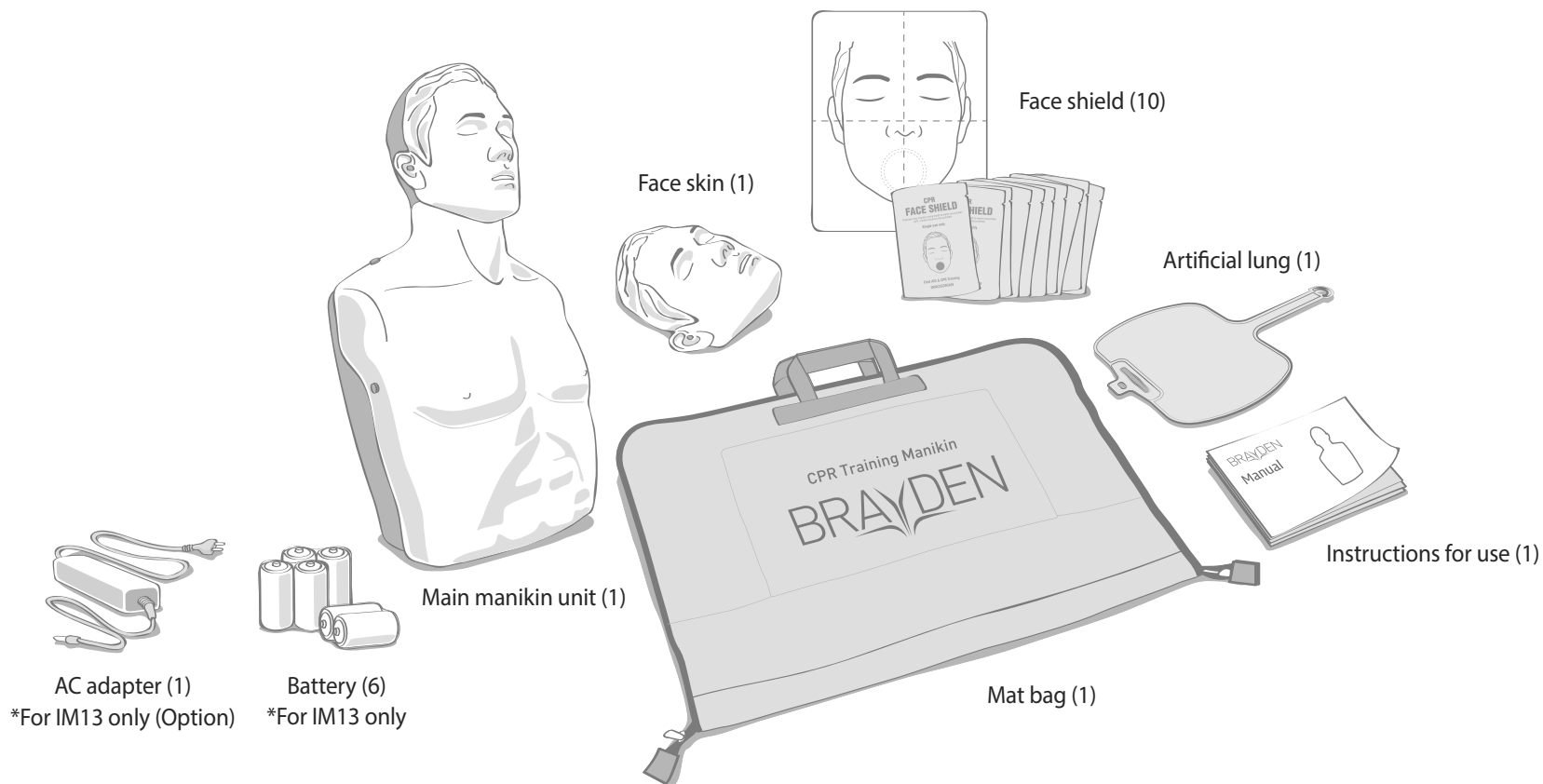
Getting started

Thank you for purchasing our product.

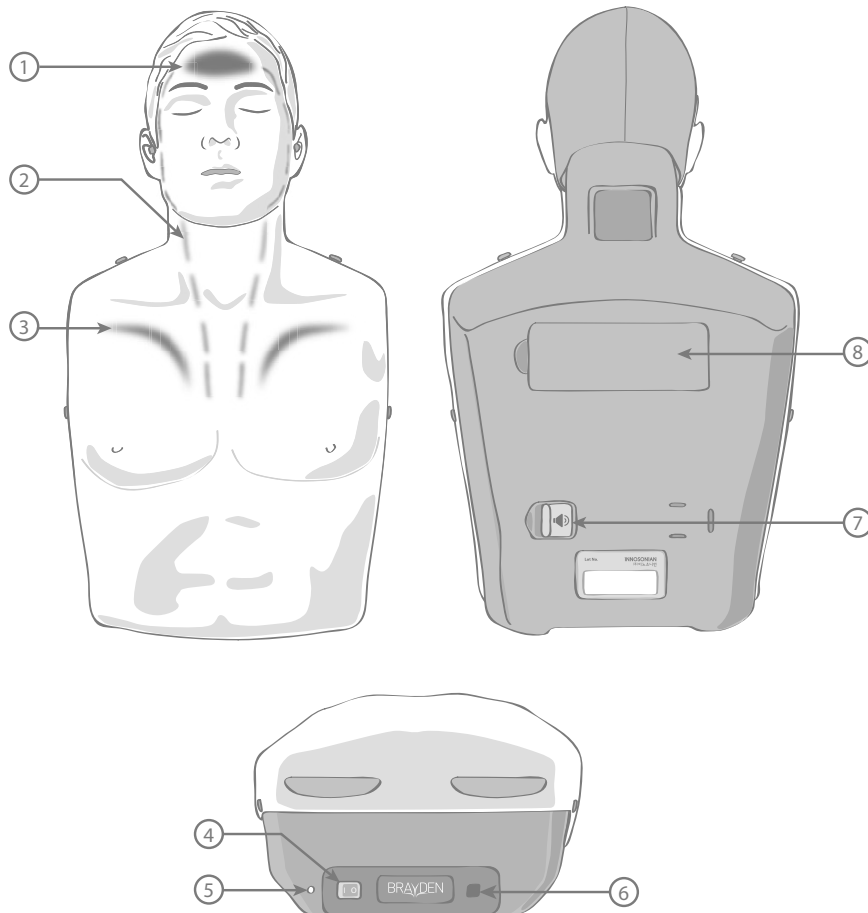
The purpose of CPR is to supply oxygen to the brain and heart of a casualty whose heart has stopped beating normally. Applying chest compressions correctly achieves this by causing blood to flow, supplying oxygen to the brain and heart.

'BRAYDEN' is the first CPR training manikin in the world which has a blood circulation display – designed to help the student understand and remember the principles of CPR.

The product package includes the following components.



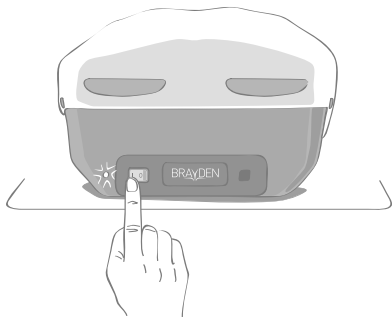
Product name



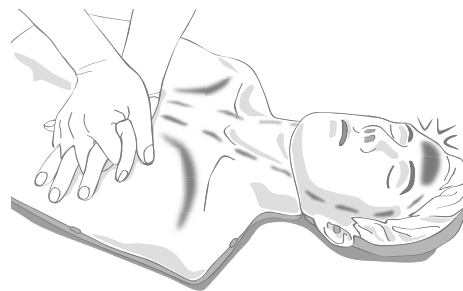
- ① Normal circulation indication light**
This illuminates to represent that blood is reaching the brain. When the depth and speed of the compressions are correct, the light will illuminate. The brightness of the light varies according to the depth of the compressions.
- ② Blood circulation indication lights**
These illuminate to represent the flow of blood from the heart to the brain. The speed of the blood flow varies according to the depth and speed of the chest compressions.
- ③ Compression depth indication lights**
These illuminate to represent the volume of blood being circulated by the chest compressions. This volume depends upon the depth of the compressions – deeper compressions illuminate the lights for a longer time, shallower compressions illuminate the lights for shorter time.
- ④ Power switch**
This turns the manikin on and off.
- ⑤ Power status indicator lamp**
When the manikin is switched on, a green light indicates that it is operating normally, a flashing red light indicates that the batteries are running low.
- ⑥ AC adaptor connection**
Connect the optional AC adaptor here.
- ⑦ Clicker On/Off switch**
A 'clicker' which sounds with each compression over 5cm in depth can be turned on or off using this switch.
- ⑧ Battery cover**
Remove this to replace the batteries.

How to use the manikin

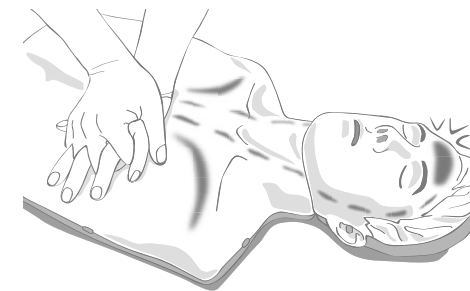
■ Chest compression



- Turn on the manikin.
- Ensure that the power status indicator lamp is illuminated green.



- Begin compressions. The 'blood circulation' and 'compression depth' indication lights will illuminate according to the depth and speed of compressions.
- When chest compressions with excessive depth of compression (over 6cm) are performed, all of the 'compression depth' indication lights will illuminate. When chest compressions with a fast speed (over 120 times per minute) are performed, all of the 'blood circulation' indication lights will illuminate.

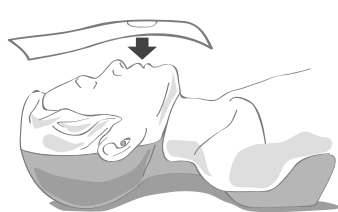


- When chest compressions with a depth of compression between 5cm and 6cm and a speed between 100 times and 120 times per minute are performed, the 'normal circulation' indication light will illuminate. For more details, refer to "Change the operation method".

■ Artificial respiration



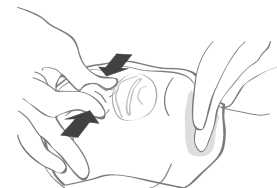
- Open the face shield.



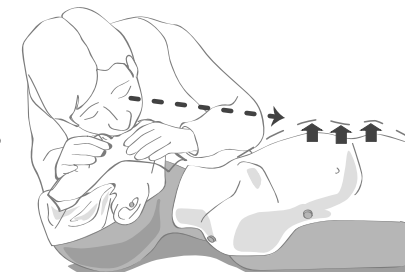
- Place the mouth part of face shield on the mouth of manikin.



- Open the airway.

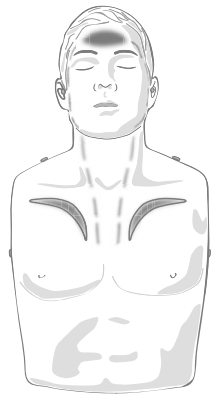


- Hold the nose with your thumb and index finger, and blow air through the mouth for 1 second.

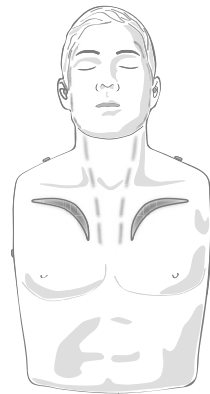


- Visually check that the manikin chest is rising.

■ Change the operation method



< Basic operation >



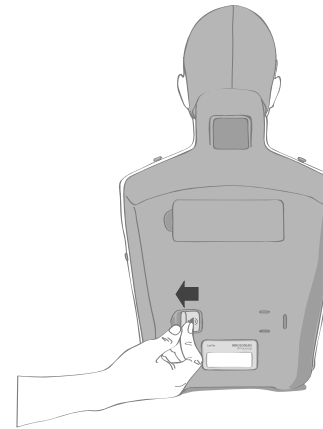
< Specialized operation >

- When the manikin is turned on, the manikin always operates in <basic operation>, and when chest compressions with a constant depth of compression over 3cm for 5 seconds are performed, it will switch to <specialized operation>.
- The 'normal circulation' indication light will illuminate when chest compressions with a depth of compression over 5cm and a speed between 100 times and 120 times per minute in <basic operation> or chest compressions with a depth of compression between 5cm and 6cm and a speed between 100 times and 120 times per minute in <specialized operation> are performed.

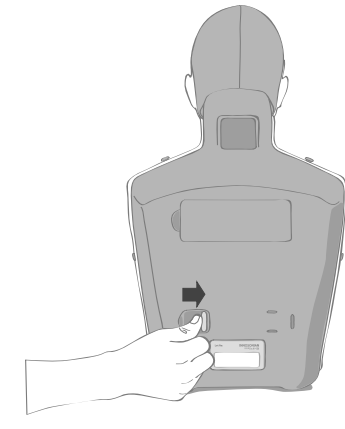
■ Note

- When the manikin is turned on, a one-time automatic calibration will be carried out for approximately 2 seconds. It is recommended that chest compressions on the manikin not be performed when automatic calibration is being carried out.
- If the chest compression is not detected for 2 seconds, the blood circulation indication lights, the compression depth indication lights and the normal circulation indication light will be turned off and the manikin will enter stand-by mode. When in stand-by mode, the power status indicator lamp will flash green.
- When the user carries out chest compressions again while the manikin is in stand-by mode, the chest compressions will be detected automatically and the indicators will operate again. However, if left in stand-by mode for 30 minutes, the manikin will switch itself off to conserve the batteries. To switch the manikin on again, slide the power switch to the 'off' position for more than 2 seconds and then switch it on again.
- While in stand-by mode, the power consumption is very low. However, we recommend that you switch off the manikin when not in use.
- If the battery is low, the power status indicator lamp will flash red. At this time, replace the battery with a new one.

■ Change the clicker setting



< ON >

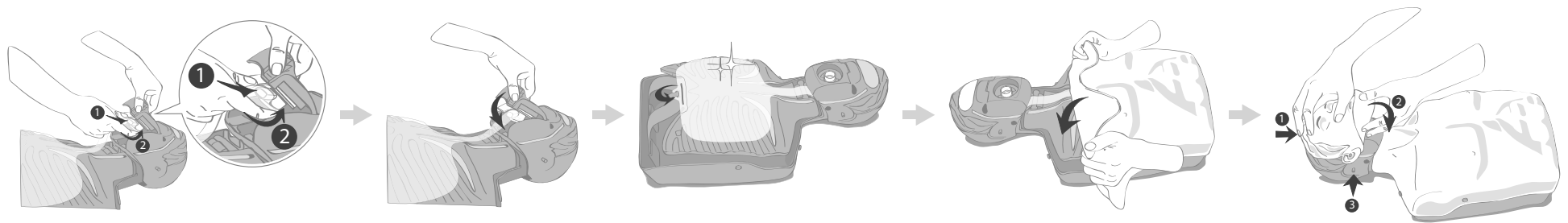
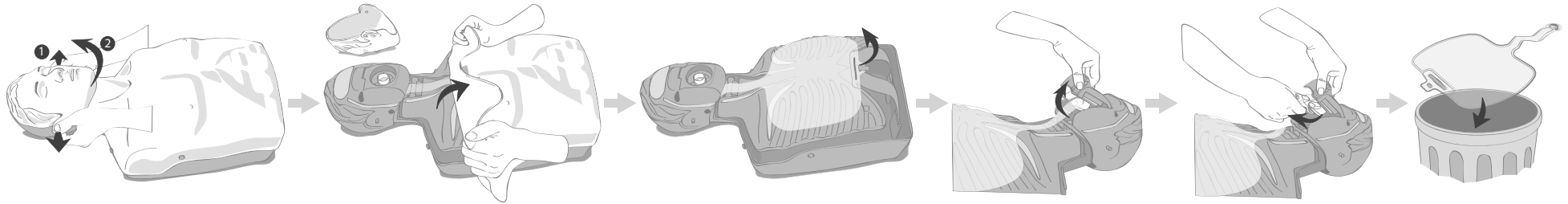


< OFF >

- Turn the 'clicker' on and off using the switch as shown. The clicker makes a "clicking" sound when the chest is compressed more than 5cm.

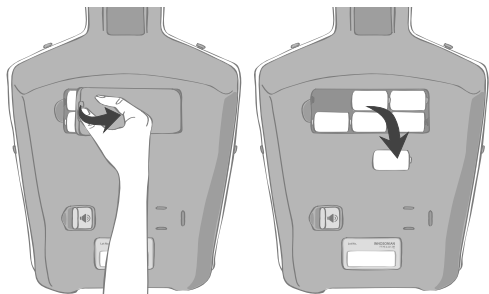
Maintenance

■ Replacing the artificial lung



■ Battery

● Replacement method

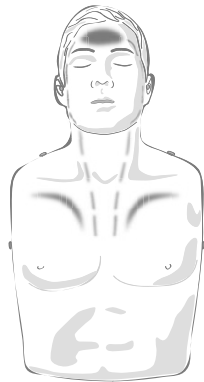


Caution

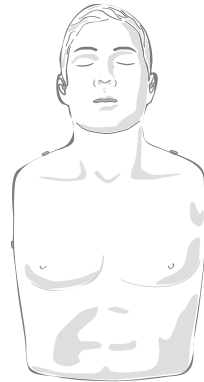
- Keep the used batteries out of reach of children and dispose of safely.
- Do not use new batteries and old batteries together. When replacing them, replace all 6 batteries together.
- If you do not use the manikin for a long period of time, remove and store the batteries.

Product and accessories

■ Product : CPR Training Manikin "BRAYDEN"



IM13
(Blood circulation display type)



IM13-S
(Simple type)

The IM13-S model does not include the blood circulation display function. If you want the blood circulation display function, you need to purchase the IM13 model.

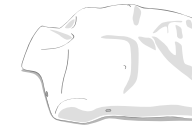
■ Product specifications (IM13)

Dimensions	32cm x 59cm x 21cm (W x H x D)
Weight	3.1Kg (6.8lb)
Operating temperature	0°C to 40°C (32°F to 104°F)
Storage temperature	-20°C to 60°C (-4°F to 140°F)
Humidity	Relative humidity between 5% and 95%
Power	AC adaptor (Input AC 100–260V, Output DC 9V 1A) Battery C type 1.5V (6 batteries)

■ Accessories



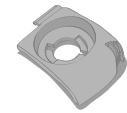
Face skin
IM13-SA01



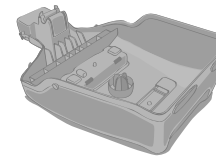
Body skin
IM13-SA02



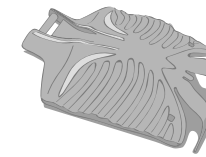
Head unit
IM13-SA03



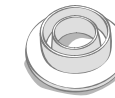
Chin
IM13-SA04



Body
IM13-SA05



Rib
IM13-SA06



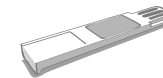
Face connection
IM13-SA07



Airway valve
IM13-SA08



Artificial lung
IM13-SA09



Clicker
IM13-SA10



Clicker actuator
IM13-SA11



Spring
IM13-SA12



Mat bag
IM13-SA13



Instruction for use
IM13-SA14



Face shield
IM13-SA15



AC adaptor
IM13-OA01

Quality assurance

The manikin is guaranteed against defects for 3 years from the date of purchase. This guarantee covers the mechanical parts of the manikin only, the electronic components are guaranteed for 2 years from the date of purchase. Consumable items are excluded from this guarantee.

If making a claim, you must enclose a proof of purchase and details of where the manikin was purchased. In the event that you are not able to supply a proof of purchase, or if it is illegible, free after sales service may be restricted.

Also, in any of the following cases, after-sales service may be restricted.

- Damage or defect of the manikin due to abnormal use, user's negligence or mistake
- Damage or defect of the manikin due to repair of the manikin at a place other than the company, authorized sales agency or service center or replacement of component with other company's product which is not provided by us
- Damage or defect of the manikin due to its use or storage in unsuitable environments such as in high temperature, high humidity, or where there is existence of chemical compounds or microorganisms
- Damage or defect of the manikin due to natural disasters or acts of God such as fire, earthquake, flood and lightning and other events that are beyond the scope of the company's control
- When information such as the date of purchase, customers name, name of supplier and manufacture's serial number has been modified intentionally
- When there is no proof of purchase

Service center

Innosonian, Inc.

Homepage www.innosonian.com
 Address 4F, 62, Bangbae-ro, Seocho-gu, Seoul, 06704, Republic of Korea
 Tel +82 2-533-9410
 Fax +82 70-8673-5285

Product purchase and service inquiry

Tel +82 70-4801-5378
 E-mail info@innosonian.com



This manikin observes the environmental requirements specified in EMC Guideline 2004/108/EC and EU Guideline RoHS 2011/65/EU for harmful substances.



Correct disposal of the batteries in this product

(Applicable in countries with separate collection systems)

This marking on battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.