

## Important notes

The PULSE STAR II uses a sealed lead-acid battery. This kind of battery does not suffer from "memory-effects" known from NiCd batteries, allowing you to recharge the battery at any time.

However, like all batteries the lead-acid battery of the PULSE STAR II PRO suffers from self-discharging. **To compensate this, the battery of the PULSE STAR II PRO must be recharged at least every six months even if the unit is not in use!** If the battery remains in a discharged condition, it may lose capacity or may even be destroyed. See also chapter 7 of the manual. To protect the battery from discharging completely when the unit has not been switched off unintentionally, the PULSE STAR II PRO automatically turns off

before the battery may become damaged. By simply turning off and on the PULSE STAR II PRO with the control knob "PWR VOLUME" the unit will run for a short period again, but the battery must be recharged as soon as possible!

Under normal operating conditions and by observing this practical note, the built-in battery will last for several hundred charging cycles. Nevertheless, should a battery replacement become necessary, please contact your dealer or us.

Important: Use PANASONIC LC-R121R3PG (12V, 1.3Ah) sealed lead-acid batteries only. This type of battery is perfectly suited for the PULSE STAR II PRO charging electronics.

## Detailed instructions on replacing the battery

1. Make sure that the PULSE STAR II PRO is turned off and no charger is connected.
2. Open the PULSE STAR II PRO (turn the unit, loose and take out two screws from the bottom side, turn the unit again, detach the upper side of the enclosure).
3. Carefully pull out the REAR electronics module.
4. Push the battery towards the open back side of the housing (do not pull the battery upwards!) and pull off the two connecting wires.
5. Put in the REAR module again in a way that both the aluminum panel and the printed circuit board slide into the guiding slots of the enclosure. Ensure that the 12-pin-connector fits exactly to its counterpart on the MAIN Module (CAUTION: single pins may be twisted!) and press the module fully down.
6. Connect the two wires with the terminals of the new battery. Make sure to connect the red wire with the positive battery terminal (+) and the black wire with the negative terminal (-). A reverse connection will activate the fuse on the REAR module which will reset itself after a short period.
7. Place the battery next to the MAIN module with its terminals facing to the outside of the enclosure and the two mounting strips facing down. The mounting strips will fit exactly to the pair of the mounting strips on the bottom of the enclosure half when the battery is centered between the REAR module and the meter. Make sure that the two battery cables will lay straight from their starting point on the REAR module along the side of the enclosure and not under the the battery! Then press the battery down strongly to lock the fasteners.
8. Place the two connecting wires of the battery in a way that protects them to become jammed between the two halves of the enclosure, that is, between the bolt and the side of the enclosure. Use the small piece of foam rubber to fix the wires in their place
9. Last, close the unit with the upper half of the enclosure. Ensure that the guiding slots on both the front and rear side precisely embrace the FRONT and REAR modules. Use the two screws to finally connect the two halves of the enclosure.

