

# MAINTENANCE AND SERVICE



## Hawker perfect plus (PzS/PzB)



**1 Battery disconnect**  
Disconnect the electrical connection between the battery and the vehicle by separating the plugs.



**2 Remove battery cover!**  
Leave vent plugs closed.



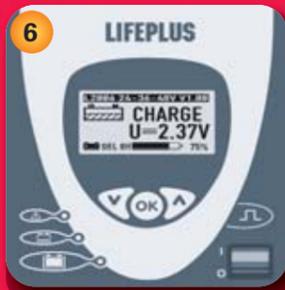
**3 Level indicator**  
Check level sensor inside.  
**flashing green** = electrolyte level ok, **flashing red** = top up water!  
Open standard vent plugs and check the electrolyte level.  
Visually check float indicator of the aquamatic plug.



**4 Measure electrolyte gravity and temperature!**  
If over 45°C leave to cool down.



**5 Connect charger plug!**  
If applicable, connect (EC) electrolyte circulation system (if connector w/o integrated air supply).



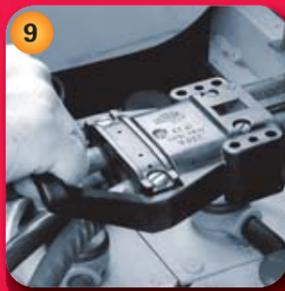
**6 Switch on charger**  
Check if charger has switched on! Charge battery!



**7 Add water**  
Add water until "max." mark or alternatively connect Aquamatic tube and see if all plugs show "max." indication.  
Water topping up should be carried out 20 min before the end of charge or immediately after charging.



**8 Switch off charger**  
Switch off charger or check if charger has switched off. Disconnect charger. Disconnect EC, if connected. Check final values if applicable.



**9 Visually inspect for damage**  
Visually inspect all battery components for mechanical damage (particularly charging plug and cables).



**10 Equalizing charge**  
Carry out weekly equalizing charge!



**11 Measure cell voltages!**



**12 Request Service department!**  
If significant changes from earlier measurements or differences between the cells are found, request further testing and maintenance by the Service department.



**13 Measure insulation value!**  
Must be at least 50 Ω per V of nominal voltage.



**14 Clean battery**  
If insulation values are too high: Clean battery and extract liquid from inside the container!



**15 Exchange aeromatic filter!**  
Check air pump function.

\* LED - Level indicator, option  
\* aquamatic, option  
\* EC - electrolyte circulation, option

	Daily	Weekly	Monthly	Annually
1 Battery disconnect	X			
2 Remove battery cover!	X			
3 Level indicator/level control	X			
4 Measure electrolyte gravity!			X	
4 Measure electrolyte temperature!	X			
5 Connect charger plug!	X			
6 Switch on charger	X			
7 Add water if necessary	X	X		
8 Switch off charger	X			
9 Visually inspect for damage		X		
10 Equalizing charge		X		
11 Measure cell voltages!			X	
12 Call service department if necessary	X			
13 Measure insulation value!				X
14 Clean battery				X
15 Exchange aeromatic filter!				X

# In PLUS

To get the hard work done