

**SAFT**  
**COMPONENT MAINTENANCE MANUAL**  
**2520**

B. After 2,000 hours

After 2,000 hours of operation (or during the regular check that is nearest to 2,000 hours), OR AFTER A MAXIMUM OF SIX MONTHS, do this battery test (also do the steps given in paragraph 2.A):

- Discharge the remaining capacity at 25 Amps down to a voltage of 20 volts at the battery terminals.
- Measure the time from the start of discharge to the time when the voltage is 20 volts.
- Connect a resistor of approximately  $1\Omega$  3W (refer to fig. 903) across each cell and continue to discharge. Resistors with crocodile clips attached to their leads can be easily attached to the cell terminals.
- Let the resistors stay in position for the night.

(1) Remove all resistors and charge the battery (Refer to "DESCRIPTION AND OPERATION" for a fully discharged battery).

- Adjust the electrolyte level in the cells (Refer to paragraph 2.A (1)). Then measure the voltage of each cell during the last hour of the charge. Also write the quantity of distilled water added to each cell.
- Immediately after the charge and the level adjustment, discharge the battery again at 25 Amps down to 20 volts ; measure the terminal voltage of each cell. Write the time that is necessary for this second discharge.
- Results of the above tests:

The battery operates correctly if:

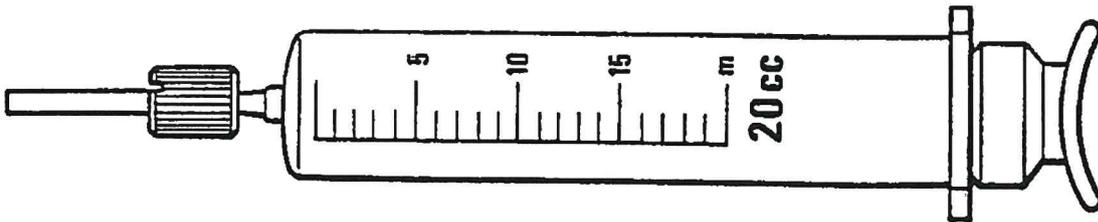
- The time necessary for the first discharge (paragraph 2.B) is more than 30 minutes,
- The time necessary for the second discharge (paragraph 2.B (1)) is not less than 51 minutes,
- The voltage of each cell measured during the last hour of the charge at 2.5 Amps is not less than 1.50 volt (1.47 volt at +35°C (95°F)).
- The quantity of distilled water added to each cell is approximately equal to or less than 60cm<sup>3</sup> (3.72in<sup>3</sup>).

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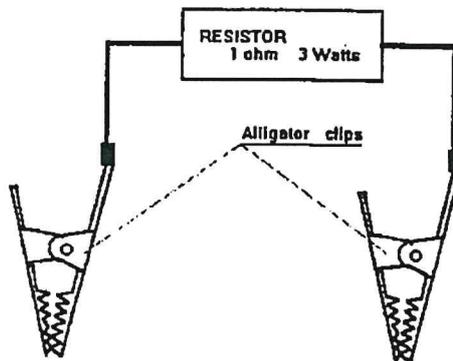
Polyamide key for vented filler caps made of polyamide

Figure 901



Syringe with nozzle

Figure 902



Equalizing resistor

Figure 903

**24-31-11**