

Acid Density (Tropics)

Specific gravity at			State of charge
20° C.	40° C.	60° C.	
1.23	1.215	1.200	fully-charged
1.16	1.148	1.136	half-charged
1.09	1.080	1.070	discharged

B. Testing of Battery on Load

The individual cells of the battery are tested with the aid of Cell Tester 000 589 00 27 or some other suitable cell tester. These testers are fitted with a fixed resistance or sometimes with an adjustable resistance so that the cells can be tested individually at a high amperage (generally 100 to 200 Amperes). For an accurate test, the load should be suited to the size of the battery and adjusted with the aid of a variable resistance. But in workshop practice it is sufficient to use an available cell tester with a fixed resistance. The voltmeter which is incorporated in the cell tester can be used to read off the voltage drop of the individual cells under load. In the case of a fully-charged battery which is in good condition the voltage must not drop below 1.8 Volts. For the rest, the operating instructions given by the manufacturers of the tester should be adhered to.

In general, the test should be carried out in the following way:

1. Press the contact prods of the cell tester firmly on the two terminals of a cell (Fig. 54 — 10/3).
2. After a period of at most 10 seconds under load, read off the voltage on the voltmeter.

Note: If the battery is fully charged and is in good condition, the voltage must not drop below 1.8 Volts.

3. Check all the cells in this way.

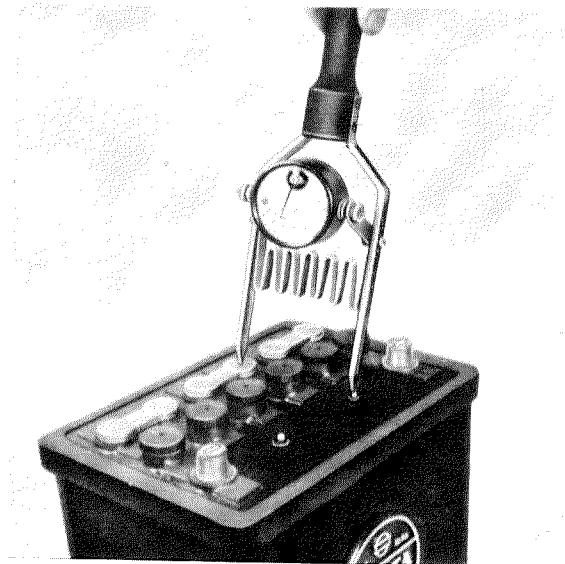


Fig. 54 — 10/3