

HYDROMETER TEST

Raise the bonnet and put the guard cover in place. Remove all battery vent tops.

- a) Visually check the vent openings.
- b) If a blocked vent is suspected, blow out with compressed air.

Make sure the electrolyte level is high enough to withdraw the correct amount of acid into the hydrometer barrel.

- a) Take no readings immediately after adding distilled water.
- b) Distilled water must be thoroughly mixed with the underlying electrolyte by charging, before the hydrometer readings are reliable.

Insert the hydrometer pick-up tube into the battery cell with bulb squeezed tightly by thumb pressure.

Slowly release thumb pressure until the bulb is fully expanded and the float is suspended freely in the barrel.

- a) Always hold the barrel vertically to prevent the float from binding or sticking to the sides.
- b) The float assembly should not touch the top or the bottom stoppers of the barrel.

With the hydrometer at eye level, read the float scale at the electrolyte level.
(Hydrometer floats are calibrated, at 80°F (27°C).

Note the number indicated on the float scale, which is intersected by the upper surface of the electrolyte in the hydrometer barrel.

Repeat this procedure (Steps 3 through 7) for each cell in the battery.

Print, cut-out and laminate, Student to place in the correct order.