# SERVICE BULLETIN

M-891

May 18, 1984

## BATTERY ELECTROLYTE

### General

Many hard starting and/or electrical problems may be caused by a battery with low specific gravity readings of the battery acid. Automotive quality battery acid with a specific gravity of 1.255 - 1.265 will not provide full battery potential. Because of their small size, motorcycle batteries require a sulfuric acid solution having a specific gravity of 1.270 - 1.280. Depending on battery condition, use of acid with a specific gravity of 1.280 will increase battery amperage output up to 20%. Accurate specific gravity readings cannot be made with a floating ball type hydrometer. Use a KENT MOORE HYDROMETER, Part No. HD-96910-35, as shown in Figure 1.

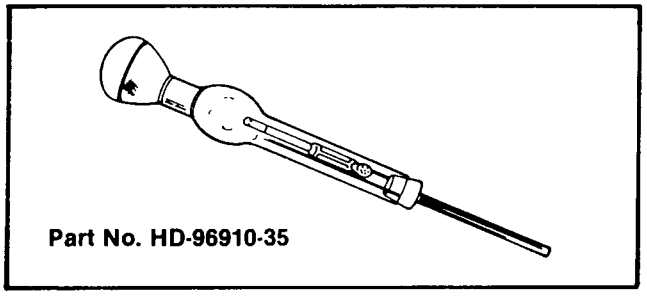


**Figure 1. Hydrometer**

### Recommendation

Activate all new batteries with electrolyte having a specific gravity of 1.270 - 1.280. Electrolyte having a specific gravity of 1.270 - 1.280 is available thru:

Greater Distributing Service
2011 John Avenue
Glenview, IL 60025

Attention: Mr. Alan Schulman

Phone No. (312) 998-0444

They will ship U.P.S., C.O.D. anywhere in the continental U.S.A.

*NOTE*

*It is not recommended to add this higher specific gravity electrolyte to batteries in use. Only use higher specific gravity electrolyte to activate new batteries.*

### Activating and Charging Procedure

**WARNING**

**Sulfuric acid is highly corrosive and can cause chemical burns. Avoid contact with skin, eyes or clothing. Always wear approved eye protection when working around batteries.**

**ANTIDOTE**

**External — Flush with water.**
**Internal — Drink large quantities of milk or water, followed by Milk of Magnesia, vegetable oil or beaten eggs. Call a doctor immediately.**
**Eyes — Flush with water, get immediate medical attention.**

1. Activate battery following the procedure given in the Instruction Sheet that is shipped with the battery using battery acid with a specific gravity of 1.270 - 1.280.

2. Before installing the battery, bench charge it in accordance with the following tabulation:

**CAUTION**

**Do not charge at a higher amperage rate than specified in the table. Charging at a higher rate such as a "quick charge" will cause the battery to overheat which will damage the battery. If battery gets hot, over 110° F, (44° C), discontinue charging and let battery cool. If battery gasses excessively, lower the charging rate and continue charging until required specific gravity reading is obtained.**

| ROUTING: | SERVICE MANAGER | SALES MANAGER | PARTS MANAGER | CHIEF MECHANIC | MECHANIC NO. 1 | MECHANIC NO. 2 | MECHANIC NO. 3 | MECHANIC NO. 4 | RETURN THIS TO: |
|---|---|---|---|---|---|---|---|---|---|
| INITIAL HERE | | | | | | | | | |

## WARNING

**Charging should be done in a well ventilated area. Explosive hydrogen gas escapes from battery during charging. Avoid open flame or electrical spark near battery at all times especially during charging.**

## RECOMMENDED CHARGING RATES

| BATTERY PART NO. | VOLT | CAPACITY (AMP-HR.) | CHARGE TIME | BENCH CHARGE (AMP) |
|---|---|---|---|---|
| 65991-75C | 12 | 19 | 12 hrs. or | 1.5 |
| 65991-82* | 12 | 19 | until | 1.5 |
| 65995-84 | 12 | 19 | specific | 1.5 |
| 66001-47D | 6 | 10 | gravity | .5 |
| 66001-61A | 6 | 7.5 | equals | .5 |
| 66003-62 | 6 | 9 | 1.270-1.280 | .5 |
| 66003-73 | 12 | 7 | | .5 |
| 66006-29D | 6 | 22 | | 1.5 |
| 66006-65A | 12 | 32 | | 4.0 |
| 66006-70 | 12 | 7.5 | | .5 |
| 66010-79 | 12 | 22 | | 2.0 |
| 66010-82* | 12 | 22 | | 2.0 |

* Low maintenance