BATTERY TESTING CHART

1. Replace Battery
2. Visually Inspect Battery for Physical Condition: Leaks, bulges, broken posts etc.
   - **FAIL**
   - **PASS**
   - Check Electrolyte level in each cell
     - **FAIL**
     - **PASS**
     - Can Water be added?
       - **NO**
       - **YES**
         - Add Water
         - Re-Charge
         - Allow to Stabilize
         - Check Specific Gravity for all cells and record
           - **NO**
           - **YES**
             - ALL Cells measure within 0.050 from highest to lowest
               - **NO**
               - **YES**
                 - Determine Battery Electrolyte Temperature
                 - Compare Specific Gravity Reading to Chart
                   - **NO**
                   - **YES**
                     - Above 80% charge
                       - **NO**
                       - **YES**
                         - S.G. for ALL Cells Above 80%
                           - **S.G.**
                           - **% of Charge**
                           - **Measured Voltage**
                           | 1.277 | 100 | 12.73 |
                           | 1.258 | 90  | 12.62 |
                           | 1.238 | 80  | 12.50 |
                           | 1.217 | 70  | 12.37 |
                           | 1.195 | 60  | 12.24 |
                           | 1.172 | 50  | 12.10 |
                           | 1.148 | 40  | 11.96 |
                           | 1.124 | 30  | 11.81 |
                           | 1.098 | 20  | 11.66 |
                           | 1.073 | 10  | 11.51 |
                           At 77°F Electrolyte Temperature

3. Charge Battery and Retest
4. ALL Cells measure within 0.050 from highest to lowest
5. S.G. for ALL Cells Above 80%
6. Charge Battery and Retest
7. BATTERY LOAD TEST
   See page 2
**CAUTION**

BATTERIES CAN EXPLODE WHEN LOAD TESTED. BE SURE AND WEAR APPROPRIATE PERSONAL SAFETY EQUIPMENT.