

Battery Labels

Introduction

As Several countries have laws or guidelines that impose or suggest minimum standards for LAB labels¹ a GL battery manufacturer must comply with prevailing national legislation for battery labels. Whatever the legislative requirements, a GL Certified lead acid battery must also comply with the following criteria:

Green Lead Battery Label Criteria.

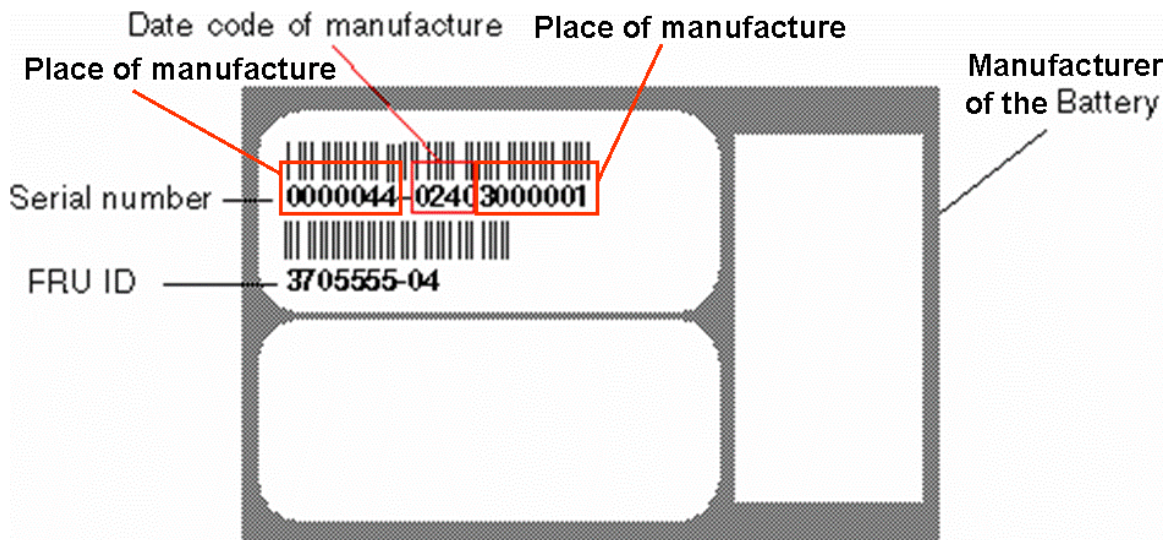
- ✓ The words “Lead Acid Battery” must be printed on the label
- ✓ The nominal battery voltage.
- ✓ **Polarity** - The positive and negative terminals must be clearly marked.
- ✓ **Warnings** - and cautions related to battery usage and disposal must be displayed.
- ✓ The label must indicate that the battery casing material, the electrolyte, the metals and the metallic compounds and alloys in the LAB can all be recycled.
- ✗ The label must have a graphic or text indicating that the LAB must NOT be dumped in a landfill or municipal waste tip.
- ✓ Instructions for recycling the used lead acid battery when it is at the end of its useful life, including the words, “*This Battery must be Recycled Properly, Contact your battery supplier for Correct Collection or Disposal provisions*”.
- ✓ Regardless of the country of sale, the label should also contain a local telephone help line or multilingual web site where safe disposal or ULAB collection information can be obtained in the local language.
- ✓ A point of contact clearly displayed in a language that can be understood, so that any inquiries about LAB can be made if necessary by phone, fax, web site or electronic address.
- ✓ The words, “Do not dispose of this battery in Household waste or at a Municipal Waste Dump”

¹ In the USA, many states will require battery manufacturers to comply with the guidelines set out by the American National Standards Institute (ANSI) Standard, under guideline ANSI C18.

- ✓ A reminder to wear the appropriate personal safety equipment, such as goggles, neoprene gloves, a neoprene apron and polyester clothing during battery maintenance or servicing.
- ✓ Instructions explaining what first aid to apply in the event of an acid burn or a splash to the face and eyes.
- ✓ A reminder to wash the hands after handling a LAB, and certainly before eating any food.

All Green Lead Certified Acid Batteries must display the following symbols:

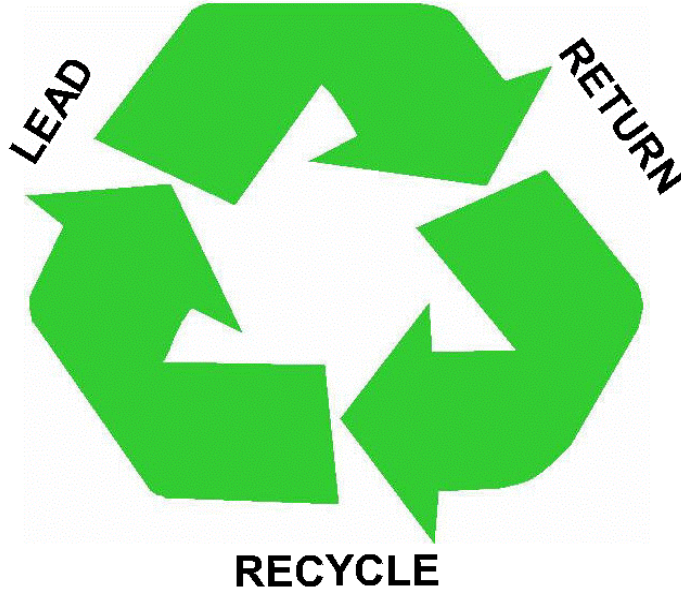
- ✓ The battery must have a bar code label with the following information
 - ❖ **Manufacturer** --The name of the battery manufacturer.
 - ❖ **ANSI Number** --The American National Standards Institute (ANSI) Standard ANSI/NEDA number of the battery or equivalent.
 - ❖ **Date** -- The month and year that the battery was manufactured or the month and year that the battery "expires" in a bar and numeric code.



Pic.1 - In this example from a Sun StorEdge 3310 SCSI Array battery there is a seven-digit code below the top bar code that indicates the place of manufacture, followed by a dash (-), then a four-digit code that indicates the date of manufacture, followed by a six-digit supplier-assigned serial number. The date of battery manufacture is indicated by "0240", where "02" is the year of manufacture and "40" is the week of manufacture.

- ❖ The bar code should also contain information for use by automatic battery breaker scanners designed to separate different battery types into segregated feed lines at the recyclers.

- ❖ The international recycling symbol ISO 7000 - 1135, better known as the Moebius Loop², with the words, “Lead, Return and Recycle” shown around the outside of the loop and the words, “Protect the Environment – Recycle this Battery”, underneath the symbol.

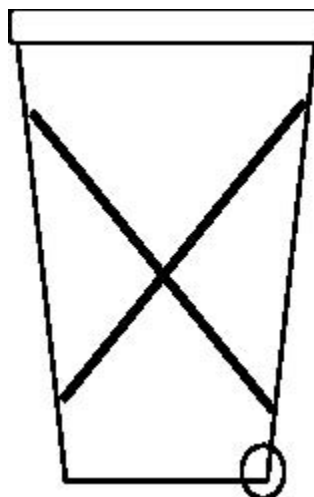


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Protect the Environment – Recycle this Battery

Pic. 2 – Moebius Loop, complete with a recycling message

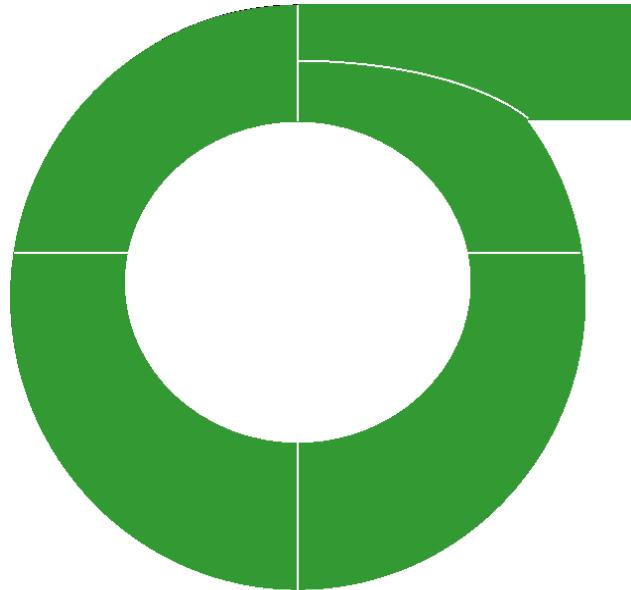
- ❖ The chemical symbol and word for lead – **Pb.....LEAD**
- ❖ The crossed out rubbish bin / trash can



Pic. 3 – Crossed Out Rubbish Bin / Trash Can

² Displaying the Moebius Loop is a mandatory requirement in many countries and the EU.

- ❖ The Green Lead™ Sigma Loop.



GREEN LEAD CERTIFIED

Produced with due consideration for the environment, human health and safety.

Pic. 4 The Green Lead™ Sigma Logo confirming that the product was produced in a Green Lead Certified Plant.

- ❖ The international warning hazard symbol or icon for acid.



Pic. 5 – The International Warning Symbol for Acid, together with an additional guide to personal protection.