Stacking and Wrapping Used Batteries on Pallets

INSTRUCTIONS FOR STACKING PALLET

1. Select a sturdy pallet with no broken or missing boards. The pallet must be stable and sturdy enough to handle the battery load.

2. Place a layer of cardboard on the pallet to prevent puncture of the batteries above and short circuit.

3. Make the first layer of batteries level and as close together as possible.

4. If some of the batteries are shorter, they should be placed in the center of the pallet. Any taller batteries should be placed on the top layer.

5. Side terminal batteries must be stacked so the posts are facing away from each other and not facing towards the outside of the pallet. Side terminals must every touch.

6. Top posts must be positioned toward the outside of the pallet so the layer above it does not touch the center. Make sure that all top layer of batteries are overlapping the bottom layer or sheets of cardboard.

7. Shunt post batteries (Marine, Group 31, Golf Car) should be on the top layer. If this is not possible, you will need extra layers of cardboard between the top layer of batteries to prevent puncture. It is also important stacking three layers high.

8. Damaged batteries that are not utility lighting electrolytes must be put in heavy-duty polyethylene plastic bags (minimum 6 mil), properly sealed with plastic tie and placed in the middle of the top layer.

9. Lead wheel weights must be put in a plastic bucket and covered. The bucket shall be placed in the center of the top layer and the handles secured to prevent contact with battery terminals.

IMPORTANT GENERAL HANDLING REQUIREMENTS

Before handling pallets, please read the following:

• Wear the appropriate personal protective equipment.

• Handle all returned batteries with the same responsible care as new batteries.

• Keep batteries upright at all times.

• Do not throw or drop batteries. Put batteries carefully down on pallet.

• W ear the appropriate personal protection equipment.

• Do not attempt to stack batteries in any other manner.

INSTRUCTIONS FOR W RAPPING PALLET

1. Start with the stretch wrap turned sideways to create a rope effect (see fig. 1). Wrap around the top layer twice.

2. Still using the rope effect, wrap the top layer twice again, crossing over the top each time to form an “X”. This will pull the batteries towards the center to prevent batteries falling off of the pallet, a DOT requirement.

3. Hold the stretch wrap open (see fig. 2 and 3), wrap around the bottom layer twice**, being sure to catch the edges of the pallet.

4. Finally, after placing cardboard around the top of the batteries, wrap around the top layer twice* with the stretch wrap in the open effect and tear at the last corner.

5. Make sure that there are no wrinkles or loose edges of the plastic wrap. Properly sealed with plastic tie and placed in a plastic bucket and covered.

** Wrap as many times as necessary to stabilize the load
* Side terminals, 110, 150 Batteries, etc.

THESE GUIDELINES ARE TO ASSIST IN COMPLIANCE WITH FEDERAL DEPARTMENT OF TRANSPORTATION (USDOT) REGULATIONS. PLEASE ASSIST THE DRIVER IN COMPLYING WITH THE LAW. FAILURE TO COMPLY WITH THE GUIDELINES CAN RESULT IN REFUSAL BY THE CARRIER TO ACCEPT MATERIAL. IN ADDITION, FAILURE TO COMPLY CAN RESULT IN FINES AND PENALTIES FROM FEDERAL, STATE, AND LOCAL AUTHORITIES.

These Guidelines were developed by a committee of industry experts and are being adopted to ensure compliance with USDOT requirements effective as of December, 2010. However, especially in this area of work, regulatory agencies may change the adequacy of your packaging and handling of used batteries. Please check with your local authorities about their laws.

* See item 4 and 7 under Stacking Pallet Instructions

- W RAFLEBOARD  PREFERRED *
- W RAFLEBOARD OR SHEETS OF CARDBOARD *
- BATTERIES

- WAFFLEBOARD PREFERRED *
- MINIMIZES POTENTIAL FOR POST PENETRATION AND SHORT CIRCUIT
- BATTERIES

- WAFFLEBOARD PREFERRED *
- MINIMIZES POTENTIAL FOR POST PENETRATION AND SHORT CIRCUIT
- BATTERIES

- CARDBOARD

- PALLET