



## Installation Instructions For ENVIROLINK™ (VRLA) Batteries

### Receiving a Battery

*Inspecting the Shipping Container* — Immediately upon receiving a battery, inspect the outside of the corrugated container (or crate) and the pallet. Look for wet spots on the sides and bottom. Wet spots generally indicate that the battery jars are broken, or that the battery was tipped over in transit. Make sure that all vent plugs are in place. The electrolyte is not free acid, but gelled.

*Making a Claim* — Shipments are generally made FOB, Hawker Plant or stocking location. Therefore, making a claim to the carrier is the responsibility of the customer. If there is evidence that the battery was damaged in shipment, a proper claim should be filed with the carrier.

The services of a professional industrial battery repairman may be required to evaluate the extent of the damage. Contact Hawker or the nearest Hawker representative.

*Lifting Batteries* — The ideal rig for lifting batteries is an overhead hoist equipped with an adjustable, insulated battery lifting beam as illustrated in the Battery Service Manual. When attached to the lifting "eyes" of a battery, the lifting beam exerts a vertical pull on the eyes. This method prevents damage to a battery that would occur using lifting methods that tend to squeeze or stretch the battery tray. If there is a possibility that the chain or cable of the hoist might come in contact with the battery post, cover the battery with a piece of plywood or another type of nonconducting material.

### Maintenance

Envirolink™ is a valve-regulated (VRLA) lead-acid battery. This battery operates with a valve and may not at any time during the life of the battery be watered. Never dismantle or remove the safety valve or the vent caps from the cell. The vent caps are nonremovable. If the vent plugs are removed, capacity loss will occur and fail prematurely and the

### Installing the Battery

The battery compartment of the vehicle must be well ventilated to allow the heat generated by the battery during discharge to dissipate. If the battery is to be installed in a metal compartment, make sure the compartment is clean and dry prior to installation.

Seat the battery in the compartment firmly and evenly. Then block it in position. Many vehicles have adjustable clips for blocking the battery into place. Allow "A" to "Vz" clearance between the block (or clip) and the battery tray. Do not wedge the battery into the compartment because some room is needed for expansion.

### Charging the Battery

The sealed VRLA battery **MUST** be charged with an approved charge (charger) profile. To avoid accidental connection to the wrong type of charger, specific connectors may be used, if available, that would only be used for this type of battery. **BATTERY MUST BE CHARGED BY AN APPROVED VRLA CHARGER.**

The charging time for an 80% discharged battery is approximately 8-10 hours. If the run time of the battery is not sufficient, check that the work required is compatible with the battery capacity and that the setting of the charger is suitable for the valve regulated battery.

*Ventilation During the Charging Cycle* - During the charge cycle, in spite of the gas recombination, cells may emit hydrogen and oxygen gas. Although the gas emission is very low, it is necessary to ensure

battery warranty is voided. Keep the battery clean and dry, in order to avoid self-discharge and current leakage. Contact a Hawker representative in your area for programmed maintenance.

ventilation in the room especially during the recharge.

*Storage* - Store the battery in a dry, clean and frost free area, before and after operating.

For an easy recharge of the batteries, it is advised not to store with recharge for more than 2 months at 86°F or 3 months at 68°F.

**ENVIROLINK™ ...The environmental choice for power.**

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