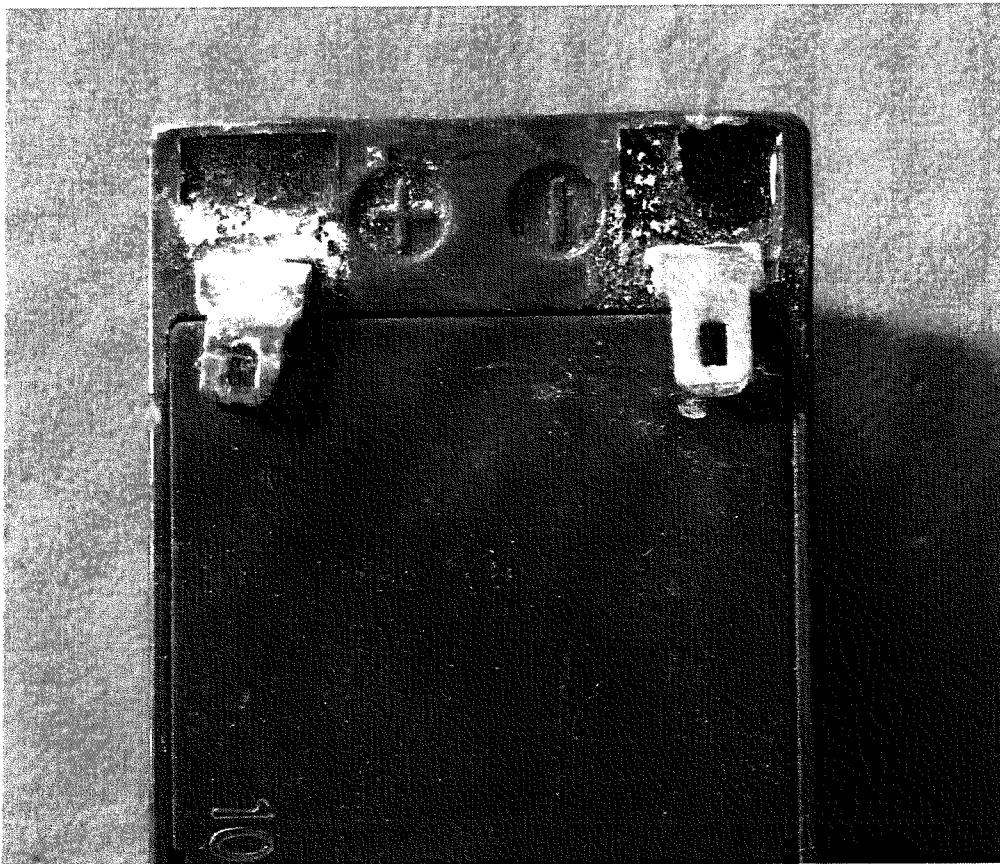


Service Bulletin

Number: 1744
Date Issued: January 21, 2016
Product Affected: G3 /G3 Vision Battery Back-up Module
Reason For Bulletin: Battery Terminal Corrosion

Description:

Like all batteries, the positive and/or negative terminals are subject to forming a layer of corrosion over time and the back-up battery module in the G3/G3 Vision is no different. This corrosion, if left untreated, can continue to grow to a point of physically damaging the battery back-up module. This damage can vary from poor connectivity to electrically damaging the module control board rendering it inoperative.



Reason for Change:

As iterated in your maintenance manual, Kustom Signals recommends that the battery in the battery back-up module be replaced every 18 months. However, during that 18 months period, some routine maintenance needs to be completed in order to insure the proper functionality of the module. As part of

that routine maintenance, the battery should be checked for corrosion on both the positive and negative terminals. If corrosion is found to be forming on the terminals, it needs to be cleaned off before additional damage can occur.

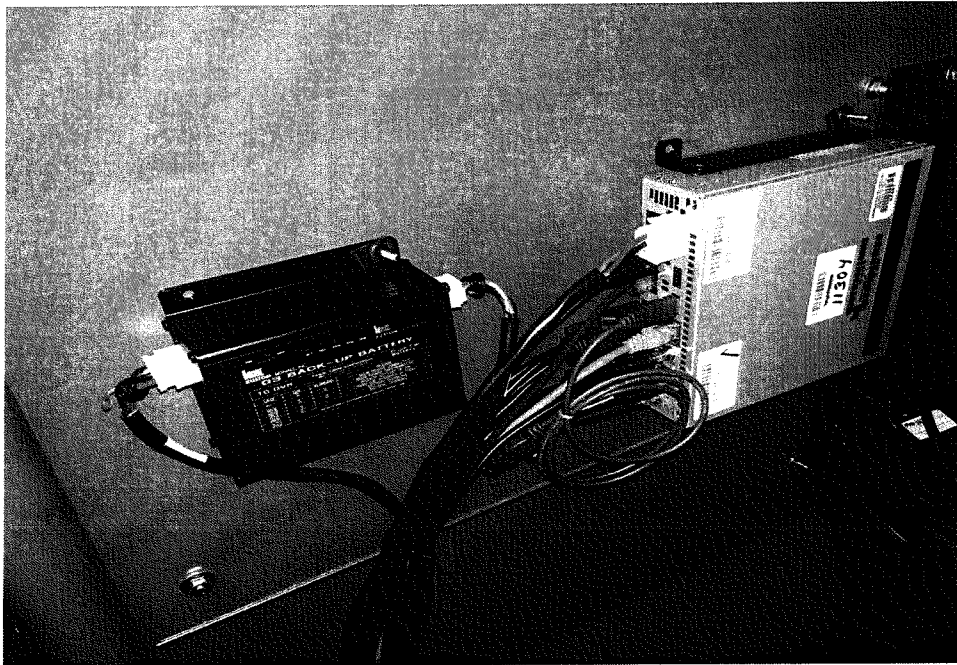
Solution:

Clean the corrosion from the terminals of the battery. To do that, first disconnect the battery from the charging board. Make sure you are wearing protective gloves as the chemicals can affect the skin. Wash the terminals with clean water. If the corrosion washes away, dry the terminal area. If the corrosion still exists, wash them with a solution using one of the following: caustic soda, washing soda or baking soda. Dissolve one of these into water. Simply dip the battery terminals for a few minutes into this solution. Use a cloth dipped in the solution to clean them or use a brush to rub the corrosion off. After cleaning with this solution, wash terminals again with clean water to clear away the remnants of the solution. It is advised not to pour the solution over the battery terminals to clean them as it might gain access to battery interiors through vents, joints or leaks. If the solution does enter, it can badly affect the performance of the battery.

Prevention from corrosion:

1. Corrosion can occur in dry environment but it is boosted by moisture and salts present in water.
2. Always keep top of the battery dry and free from dust and other pollutants.
3. Apply petroleum jelly or grease to battery terminals to protect them from corrosion.

According to the battery manufacturer, mounting the Battery Back-up Module is best way to ensure optimal performance over time. After reassemble of the Battery Back-up Module, note that the module needs to be mounted vertically as shown on the picture below to orient the battery upright. This is the preferred mounting position if your installation will accommodate. If your installation requires it to be horizontally mounted, please increase the frequency with which you inspect the battery terminals. The picture below depicts a Battery Back-up module mounted to a “prisoner cage.”



Owner: Kevin Unrein
Customer Service: TSS, FST, DRT