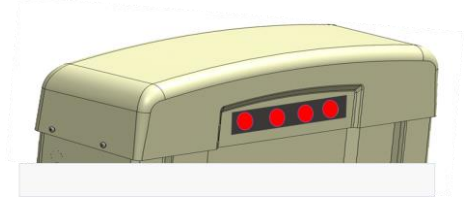
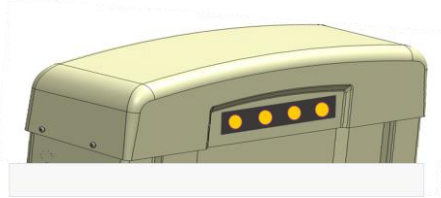
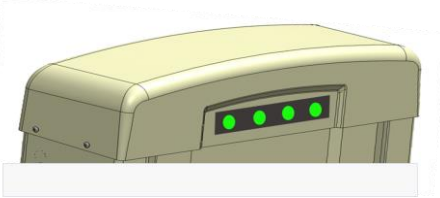


# PRODUCT INSIGHTS

From Harmar's Product Experts

## THE GUARDIAN SYSTEM

The Guardian System was introduced on Harmar's new Highlander II Vertical Platform Lift. This system is designed to help streamline communication from the VPL to the end-user and the dealer in order to enhance confidence, reduce downtime and increase unit durability. It consists of 4 high-visibility LED's in the top cap which, by their combination, communicate over 50 statuses.



### Basics:

- There are 3 possible colors: Green, Amber and Red.
- There are 2 possible light conditions: Solid or flashing
- Any pattern will be consistent and will not mix color or condition
- The only variation with any single pattern is which of the four lights are on  
*ex. Lights 1, 2 and 3 could be solid red      ex. Lights 3 & 4 could be flashing amber*

### Color/Condition Categories:

- Green + Solid: It is OK to operate the lift
- Green + Flashing: It is OK to operate the lift, but it is in battery backup mode or Service Mode
- Amber + Solid: It is OK to operate the lift, but some form of service is recommended
- Amber + Flashing: The lift has limited functionality (can go up or down only); there is a minor fault
- Red + Solid: There is no functionality; check the E-Stop, Interlocks, etc.
- Red + Flashing: Do Not Use Lift; Major Fault, Service Required

### Required Service Flags:

- There is a cycle count function that provides a required servicing at 7,500 cycles. The system warns at that point and will shut down at 8,000 cycles. This is for a comprehensive motor, drive system evaluation.
- There are other flags after certain faults, frequencies. These could be flood switch, OSG, decline in travel speed, etc.
- Required service flags are designed so the servicing dealer will personally inspect the unit. Upon repair or evaluation, the service warning can be reset by the dealer/technician according to the Installation & Service Manual.

### Service Mode:

- When a technician is servicing or installing the lift; they may need to bypass a safety for a faulty switch or disconnected interlock. Service mode is a button on the PC Board that, when activated, provides a 15-minute bypass for ancillary safeties. After the time expires, the system safeties are restored automatically. To extend, press the switch again. During this condition, the lights will flash green.