



COLLISION  
AVOIDANCE  
SYSTEM

**Wing Walker G**

**COMPLETE  
USER GUIDE**



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## INTRODUCTION

The Wing Walker G Collision Avoidance System is designed to prevent costly accidents that can result during marshalling/tug operations. Used in conjunction with your companies standard operating protocols and procedures the Wing Walker G provides an additional layer of safety during marshalling/tug operations.

## HOW IT WORKS

- The WW-RB1 G – RADIO BATON (YELLOW & BLACK HANDLED RED RADIO BATON) can send a radio signal to both the WW-STROBE G – RADIO STROBE and the WW-AB G – ALARM BOX/PAGER by pushing the red button on the baton. This radio signal will simultaneously ignite the WW-STROBE G – RADIO STROBE and the WW-AB G – ALARM BOX/PAGER. The WW-STROBE G will flash and the WW-AB G – ALARM BOX/PAGER will emit a 120 db audio alarm and vibrate. The system provides a visual, audio, and sensorial stimulus to the tug/machine operator letting them know to stop the tug/machine to avoid a costly accident.

### **WARNING**

***This system is meant to be used in conjunction with current operating practices. It is not to be used to replace current operating practices. This guide assumes that you have some knowledge of the marshalling and/or ground support procedures.***



### **Charging the Alarm Box/Pager**

- Put alarm box/pager in one of the dual charging docks and push the red button on dual charging dock. The red light indicates that the pager is charging. The green light indicates a full charge.



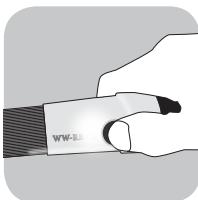
### **Start-up/Testing Procedure**

- To start up the system make sure that all batteries are in place and alarm box is charged. There are three red battery indicator lights in the top of the pager just above the numerical digital display. When the three lights are red there is a full charge. Two red lights indicate a half charge. One red light indicates a quarter charge.



- Turn on pager and strobe. Place the alarm box/pager on the tug operator/machine operator. Place the magnetic base strobe in the line of site of the tug/machine operator. Then deploy marshalling personnel each with one regular baton (if included) and one yellow body signal baton (or two if using two signaling batons).

## **⚠ WARNING**



**Always test system before putting it in the field. To test the system simply turn components on and wait five seconds. When the blue flashing light in the face of the alarm pager goes from quick flashing to slow flashing, then the pager is ready to receive a signal. Push the red button on the yellow body baton to test. Test both signal batons before placing system into the field.**

### **Operating Procedure**

- During traditional operating practices while the marshalling personnel are directing the tug/machine operator: in the event of a potential collision seen by the marshalling personnel push the red button on the yellow body baton to set off the vibrating alarm pager and tug light. In the event that the alarm pager goes off or if the machine operator sees the strobe flashing blue, then the machine/tug operator is to stop immediately.
- This system simply gives the marshalling personnel the ability to send an immediate message to the tug/machine operator to stop in the event of a potential collision.



### **Syncing Procedure**

- Syncing procedure is only needed when adding/changing part numbers: WW-AB G, WW-RB1 G, and WW-STROBE G.
- Add batteries to the batons and magnetic beacon.
- Unscrew the strobe base and flip the internal switch to the red circle. The beacon is now in sync mode. The strobe light will steady burn to indicate that it is ready to be synced. Next, hold down the red button (signal button) on both/all yellow body batons in your kit. While holding down both/all red buttons on the yellow body batons turn on the alarm box (keep holding red buttons on the batons until batons and strobe flash). Alarm box will automatically sync with the yellow body batons. The batons and strobe will flash to indicate that the sync is complete.
- Turn the alarm pager and strobe off. Switch the internal black button in the base of strobe back to normal operation mode (away from the red circle). Turn all components ON, they are ready to use. Strobe will have a tiny red flashing light inside the lense to indicate it is on and in normal operation mode.





## FREQUENTLY ASKED QUESTIONS



What is the range/distance of the signaling devices for the Wing Walker G?

The maximum distance between radio baton and alarm pager is 150 ~ 170 M (492 ~ 557 foot) in a open area.



What is the frequency range?

The Wing Walker G uses 2.4GHz which is an open frequency worldwide.



How many systems can they run simultaneously in the same area?

Each alarm box will be given an ID number by Railhead before shipping out. There is no system limitation in the same area. Each Wing Walker G has a unique ID. If you notice an ID duplication stop using the system and contact your distributor or Railhead Corp.



How many batons can be synced to the same controller?

Theoretically, one could sync an endless number of radio batons (WW-RB1 G) to a system.



## FREQUENTLY ASKED QUESTIONS



Does the Wing Walker G have FCC and CE approval?

Wing Walker G now has FCC and CE approvals.



How many watts of power are consumed while in use?

Stand-by mode : 30 ~ 40 mAh

Vibrate and siren mode : 200 ~ 250 mAh



How fast do the signal batons transmit the signal to the beacon and alarm box?

When the radio baton alarm button is pressed, it finishes its first signal transmission within 100 ms. Then every signal transmission in every 150 ms afterward until the button is released. It therefore can be interpreted as the signal transmission from radio baton to alarm box is 100 ~ 150 ms.

**For more information, contact Railhead Corporation at (800) 235-1782**



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