

# **AES** **RAPTOR ALERT™** PATENT PENDING

*Fall Warning System*  
*Otoño Sistema de Alerta*  
*Système d'Alerte d'Automne*



***Instruction Manual***  
***Manual de Instrucción***  
***Manuel d'Instructions***



ITEM NO: RAS-AB-000-09

**\*WARNING\***

Serious injury or death may result if this product is used for purposes other than designed. The manufacturer provides the following instructions for the use and care of this equipment. It is the responsibility of the purchaser to understand and convey explicit instruction to each user. The AES Raptor Alert™ complies with the requirements of the Federal Occupational Safety and Health Administration (OSHA) when set up and used according to the manufacturers' instructions.

**\*ADVERTENCIA\***

Si este producto se utiliza para otros fines que no son el de su diseño podría ocasionar daños graves o hasta la muerte. El fabricante provee las siguientes instrucciones para el uso y cuidado de este equipo. Es responsabilidad del comprador comprender y transmitir instrucciones explícitas a cada usuario. El AES Raptor Alert™ cumple con los requerimientos de la Federal Occupational Safety and Health Administration (OSHA) cuando se instala y se utiliza de acuerdo con las instrucciones del fabricante.

**\* AVERTISSEMENT \***

L'utilisation de ce produit à d'autres fins que celles pour lesquelles il est conçu peut entraîner des blessures graves, voire mortelles. Le fabricant fournit les instructions suivantes pour l'utilisation et l'entretien de cet équipement. Il relève de la responsabilité de l'acheteur de comprendre et de transmettre les instructions explicites à chaque utilisateur. Le système AES Raptor Alert™ est conforme aux exigences de l'OSHA (Agence pour la sécurité et la santé au travail) lorsqu'il est installé et utilisé conformément aux instructions du fabricant.

***WWW.RAPTORSAFETY.COM***

# **AES RAPTOR ALERT™ INSTRUCTION MANUAL**

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## **AES Raptor, LLC - Raptor Alert™ Instruction Manual**

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**AES RAPTOR COMPLETE MOBILE FALL PROTECTION SYSTEM**  
is a registered trademark of  
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1349 Taney  
North Kansas City MISSOURI 64116  
[www.raptorsafety.com](http://www.raptorsafety.com)

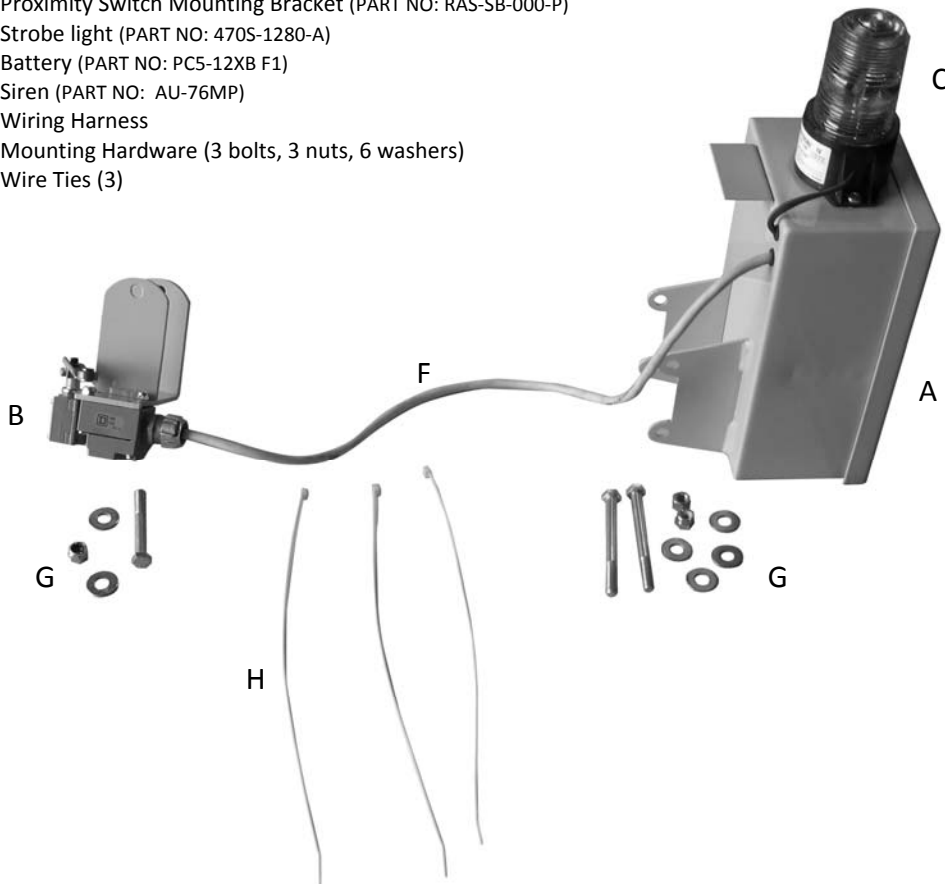
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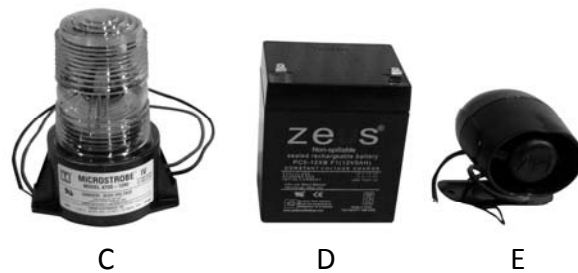
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## DIAGRAM OF PARTS

- A. Alarm Box (PART NO: RAS-AB-000-P)
- B. Proximity Switch Mounting Bracket (PART NO: RAS-SB-000-P)
- C. Strobe light (PART NO: 470S-1280-A)
- D. Battery (PART NO: PC5-12XB F1)
- E. Siren (PART NO: AU-76MP)
- F. Wiring Harness
- G. Mounting Hardware (3 bolts, 3 nuts, 6 washers)
- H. Wire Ties (3)



### Parts Installed in Alarm Box

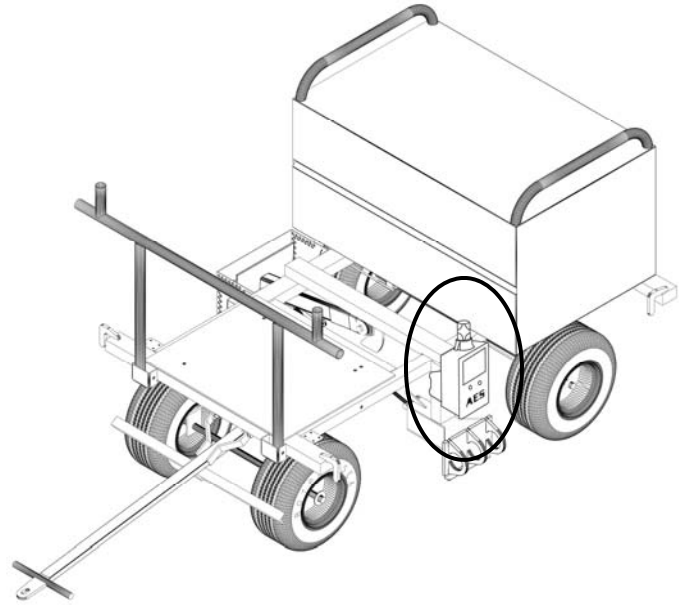


Patent Pending

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## 1.0 INSTALLATION

Your Raptor Alert™ System comes wired and ready to install on an AES Raptor R1000™ or TriRex™ in the following steps:



### 1.1 INSTALL ALARM BOX

The alarm box attaches to the Safety Engagement Arm Support with the supplied bolts (Diagram 1)

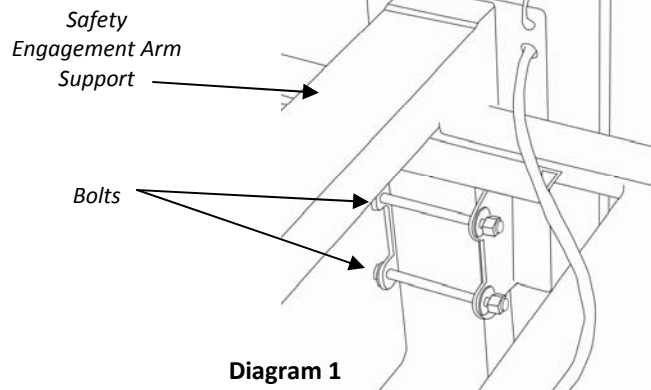


Diagram 1

### 1.2 INSTALL THE PROXIMITY SWITCH MOUNTING BRACKET (PSMB)

- Install the PSMB onto the Safety Engagement Arm Support approximately 9-10" from the back of the edge. (Diagram 2)
- Once installed, check for proper alignment of the Limit Switch's rolling arm with the Safety Engagement Arm. If properly aligned, the Limit Switch will click when the Safety Engagement Arm is depressed. (Diagram 3)

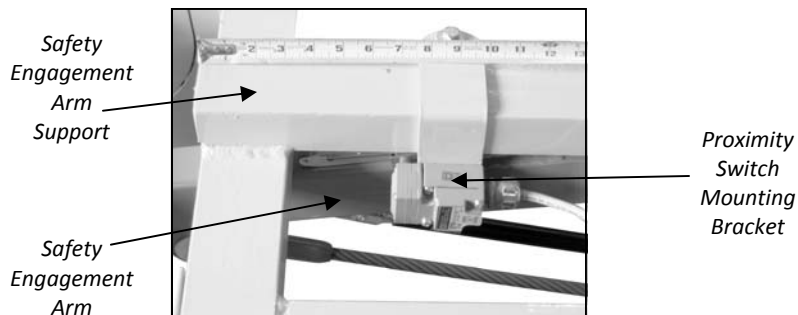


Diagram 2

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## 1.3 SECURE WIRING HARNESS

- Secure the wiring harness onto the Safety Engagement Arm Support with the supplied wire ties. (see Diagram 4)

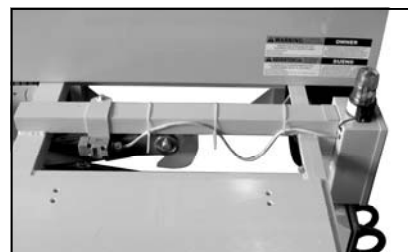


Diagram 4

## 1.4 INSTALL BATTERY AND TEST

- Install the sealed lead acid battery into the Alarm Box, connect the terminals (black to the black post, red to the red post) and secure the front cover with the supplied bolts. (see Diagram 5)
- Press the Safety Engagement Arm in the downward position until the Proximity switch is no longer in range and the alarm will sound.

### IF THE ALARM DOES NOT SOUND

- Check for proper PSMB alignment
- Check battery for charge



## 2.0 USE AND LIMITATIONS

The Raptor Alert is designed to alert workers and surrounding personnel that a worker using a Raptor R1000 or TriRex as a mobile anchor device has fallen. It is in no way part of Personal Fall Protection Equipment and should be used only to accent your Fall Protection Safety Program.

## 3.0 INSPECTION STEPS

### 3.1 Daily Inspections

An inspection of the Raptor Alert needs to be made before each use to insure proper alignment of the PSMB and for charge of battery.

- Visually inspect all components of the Raptor Alert to insure that there is no damage of the proximity switch or wiring harness.
- Lower the Safety Engagement Claw so the Proximity switch engages. Hold for 3 to 5 seconds to allow the alarm and strobe light to activate.
  - If the strobe light does not activate or the alarm does not sound, check battery connections and charge.

### 3.2 Battery Care

- **Maintenance Free:** Sealed lead acid batteries are valve regulated and are safe to discharge in any position. Electrolyte is absorbed into the positive, Negative plates and separator material, there is no need to add electrolyte.
- **Life Expectancy:** Sealed lead acid batteries will last up to 5 years in stand by applications and 200 to 1000 cycles in cyclic applications depending on depth of discharge.
- **Shelf Life / Storage:** Sealed lead acid batteries should be stored in a fully charged condition and top charged every (6) months in ambient temperatures to prevent permanent loss of capacity. To extend the shelf life without charging store at temperatures less than 50 degrees store at temperatures less than 50 degrees F and 10 degrees C or lower.

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## WARNING LABEL

Upon each inspection please use this page to verify that the Warning Label is present and fully legible.

### **WARNING**

CHECK THE ENGAGEMENT ARM AND PROXIMITY SWITCH FOR PROPER ALIGNMENT AND OPERATION BEFORE EACH USE. IF IN PROPER ALIGNMENT, THE ALARM WILL SOUND WHEN THE ENGAGEMENT ARM IS LOWERED FOR DAILY TESTING

SEALED LEAD ACID BATTERIES SHOULD BE STORED IN A FULLY CHARGED CONDITION AND TOP CHARGED EVERY SIX (6) MONTHS

### **ADVERTENCIA**

VERIFICAR QUE EL DISPOSITIVO DE SEGURIDAD PARA ACOPLAMIENTO AL TECHO EL INTERRUPTOR DE PROXIMIDAD ESTÁ ALINEADO CORRECTAMENTE ANTES DE USAR. SI ESTÁ ALINEADO CORRECTAMENTE, LA ALARMA SONARÁ CUANDO EL DISPOSITIVO DE SEGURIDAD PARA ACOPLAMIENTO AL TECHO ESTÁ BAJADO PARA PRUEBA DIARIAMENTE.

CONSERVARSE LOS BATERÍAS DE PLOMO ÁCIDO EN UNA CONDICION COMPLEMENTE CARGADO. RECARGAR LOS BATERÍAS CADA SEIS (6) MESES.

### **AVERTISSEMENT**

VÉRIFIER L'ALIGNEMENT ET LE FONCTIONNEMENT DU BRAS D'ENCLenchement ET DU CONTACTEUR DE PROXIMITÉ AVANT CHAQUE UTILISATION. SI L'ALIGNEMENT EST ADÉQUAT, L'ALARME RETENTIT LORSQUE LE BRAS D'ENCLenchement EST ABAISSÉ LORS DU TEST QUOTIDIEN.

LES BATTERIES SANS ENTRETIEN DOIVENT ÊTRE STOCKÉES COMPLÈTEMENT CHARGÉES ET RECHARGÉES À BLOC TOUS LES SIX (6) MOIS.

# AES RAPTOR ALERT™ INSTRUCTION MANUAL



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## Raptor Inspection and Maintenance Log

PLEASE COPY THIS LOG, FILL IT OUT BEFORE EACH USE, AND KEEP IT IN YOUR RECORDS.

<b>RAPTOR SERIAL #</b>			
<b>RAPTOR MODEL #</b>			
<b>DATE PURCHASED</b>			
<b>Inspection Date:</b>			
<b>Inspection Item Noted:</b>	<b>Corrective Action Needed?</b>		<b>Maintenance Performed:</b>
<b>Overall Cart Parts</b>	Yes	No	
Approved By:			
<b>Welded Connection</b>	Yes	No	
Approved By:			
<b>Safety Lifeline Tie-off Rings and Hoisting D-Rings</b>	Yes	No	
Approved By:			
<b>Cables</b>	Yes	No	
Approved By:			
<b>Labels</b>	Yes	No	
Approved By:			
<b>Overall Cart Corrosion</b>	Yes	No	
Approved By:			

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