



Compiled/Updated	ZB
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Amendment	A7

Instructions For Use - Bird Flight Diverters & Powerline Markers (BE version)

Caution:

- This product is to be used by authorised industry trained personnel only.
- The use of this product must adhere to appropriate work practises and or industry standards ensuring compliance to all Workplace Health and Safety Regulations.
- This product may only be installed onto an asset when the asset owner has approved of such installation.
- Failure to follow appropriate work practices and operational instructions or modifications to this equipment can result in product damage and or serious injury.
- These instructions are to be read in conjunction with The Product Data Sheet (PDS) as well as Balmoral Engineering terms and conditions published on our website.

1. General Spacing and Orientation Recommendations

- 1) **LINEZERBRA** are recommended to space 5meters to 10metres apart. *
- 2) Minimum of 1-2 Markers per span. *
- 3) All Spring Clamp products have an opening range between **Ø2mm to Ø50mm**.
- 4) The products are recommended to install vertically on the powerline. The final orientation shown below:

LINEZERBRA

BD-SC-1Z-XX-BE

XX: Represent different colours:

BW - Black & White

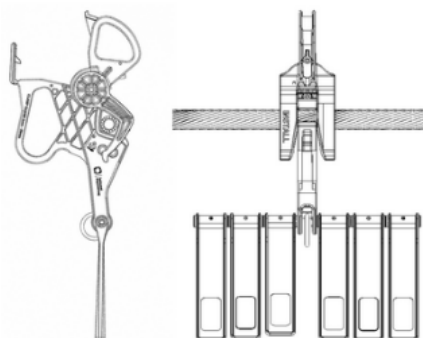
BGID - Black & Glow in Dark

RW - Red & White

OW - Orange & White

OGID - Orange & Glow in Dark

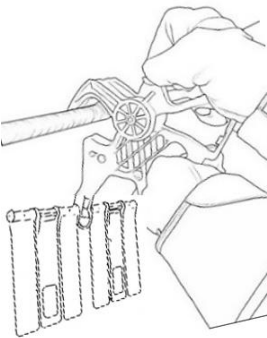
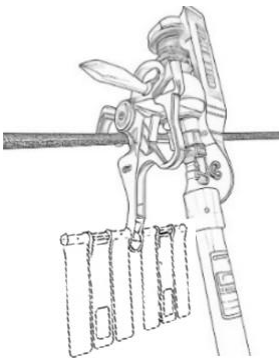
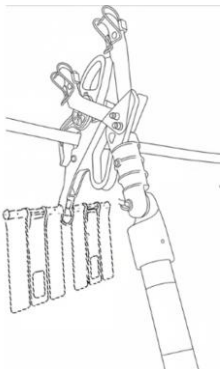
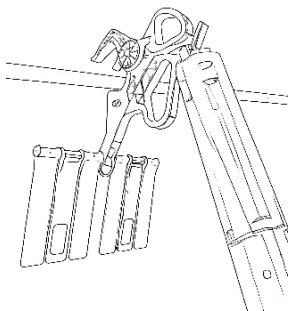
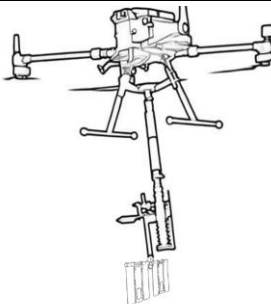
Other colour streamers are available based on the requested MOQ.



**May vary depending on environmental conditions, the particular application and engineering considerations of the asset owner*

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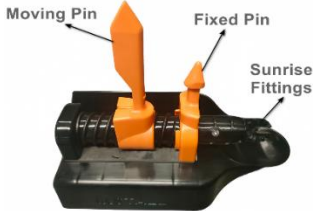
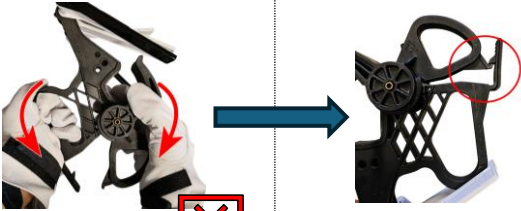
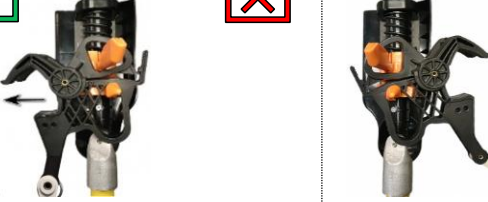
2. Installation Options

LINEZEBRA products can be installed and uninstalled in below ways:			
Install and uninstall by hand		Install and uninstall with the Balmoral Screw Tool (LLCR-S-BE*) on a Telescopic Stick <i>More details see page 3-5 (Method A)</i>	
			
	Scan the QR code Or Click here to watch video		Scan the QR code Or Click here to watch video
Install and uninstall with the Balmoral quick install & uninstall tool (LLCR-V-BE **) on a Telescopic Stick <i>More details see pages 6-8 (Method B)</i>		Install and uninstall by using a standard Shotgun Stick*** <i>More details see pages 9-10 (Method C)</i>	
			
	Scan the QR code Or Click here to watch video		Scan the QR code Or Click here to watch video
Install and uninstall by drone **** (coming soon)			
			
* Speciality tools recommended for installation options pictured refer to page 3 (Method A). ** Speciality tools recommended for installation options pictured refer to page 7 (Method B). *** Shotgun Sticks are an industry standard tool available on the market and not supplied by Balmoral. See page 9 for further instructions. **** More information please contact Drone supplier and Balmoral to check the attachment solutions.			

Method A:

Install and uninstall with the Balmoral Screw Tool (LLCR-S-BE) on a Telescopic Stick

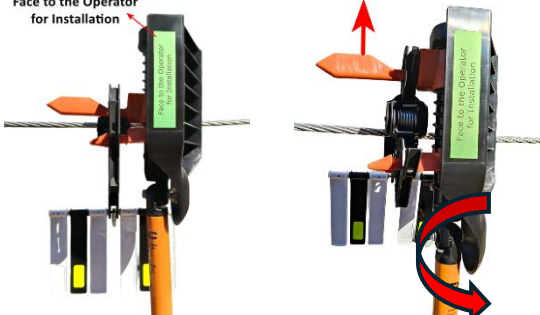
LLCR-S-BE: Spring Clamp Product Screw Tool, is supplied separately. Consult Balmoral Engineering for more information.

A1: Assemble the Screw Install Tool (LLCR-S-BE) to the Hot Stick		
A1.1	Screw Install Tool, Part No.: LLCR-S-BE.	
A1.2	Align the teeth and assemble the Hot Stick onto the Sunrise Fittings.	
A2: Engage the Device to the Tool		
 Be aware the Strong Spring, wear protective gloves during the whole process.		
A2.1a	Adjust the Moving Pin to the bottom until it contacts the Fixed Pin.	
A2.2a	Open the device as shown above until the device is locked by the trigger.	
A2.3a	Firmly press the device on to the Tool. Ensure the clamps' open direction is in the correct orientation, see top photo.	  
A2.4a	Release the trigger by pulling trigger as shown above.	 



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A3: Install the Device to Powerline

A3.1	As shown above, the device is ready to install on the Powerline.	
A3.2	Check the Label: Face to the Operator for Installation , then slowly raise and lean the Tool on to the Powerline.	
A3.3	Rest the top clamp on the Powerline but do not pull it down. Turn the Hot Stick clockwise to release the device onto the Powerline.	
A3.4	Once the device is clamped on the Powerline, disengage the tool by sliding it away from the device to complete installation.	



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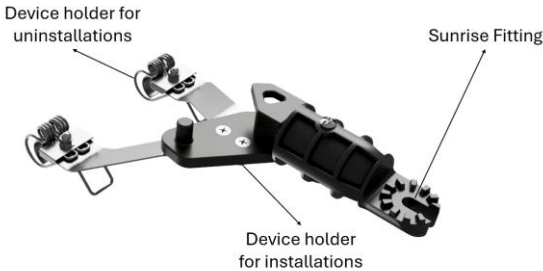
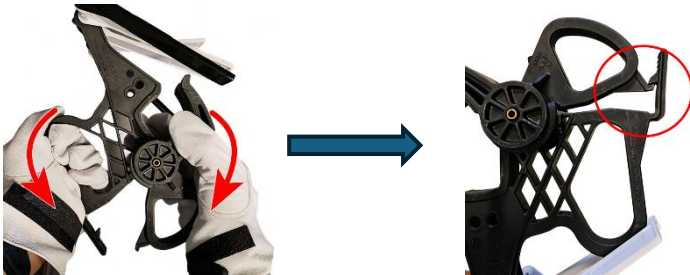
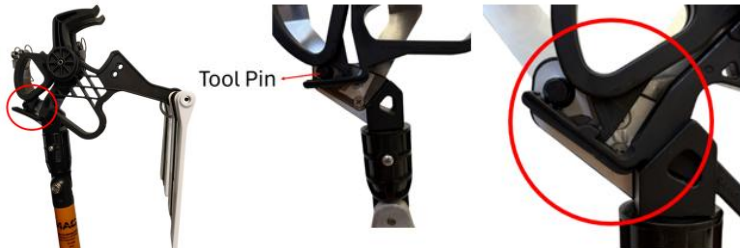
A4: Uninstall		
A4.1	Check the Label: Face to the Operator for Uninstallation , fully open the tool(both pins at max distance apart), then slowly raise and lean the Tool on to the Powerline, slide the two Pins from left side into the top and bottom ears or openings of device.	
A4.2	Turning the Hot Stick in the anti-clockwise direction to open the device's jaws and remove from the Powerline.	

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Method B:

Install and uninstall with the Balmoral quick install & uninstall tool (LLCR-V-BE) on a Telescopic Stick

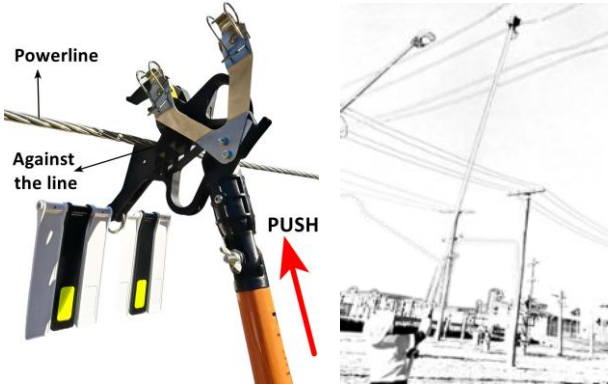
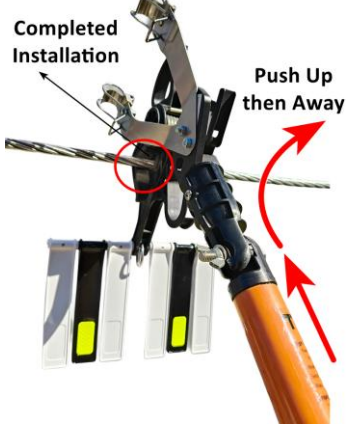
LLCR-V-BE: Spring Clamp Product Quick Install & Uninstall Tool, is supplied separately. Consult Balmoral Engineering for more information.

B1: Assemble the Screw Install Tool (LLCR-V-BE) to the Hot Stick		
		
Quick install & uninstall Tool, Part No.: LLCR-V-BE	Align the teeth and assemble the Hot Stick onto the Sunrise Fittings	
B2: Engage the Device to the Tool		
 Be aware the Strong Spring, wear protective gloves during the whole process.		
B2.1	Open the device as shown above until the device is locked by the trigger.	
B2.2	Affix the device on to the holder. Warning: Be aware of the strong spring to avoid hurt fingers.	



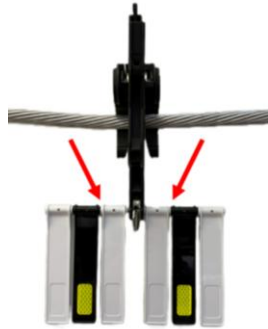
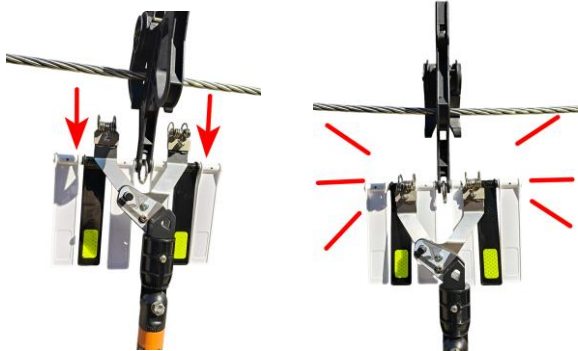
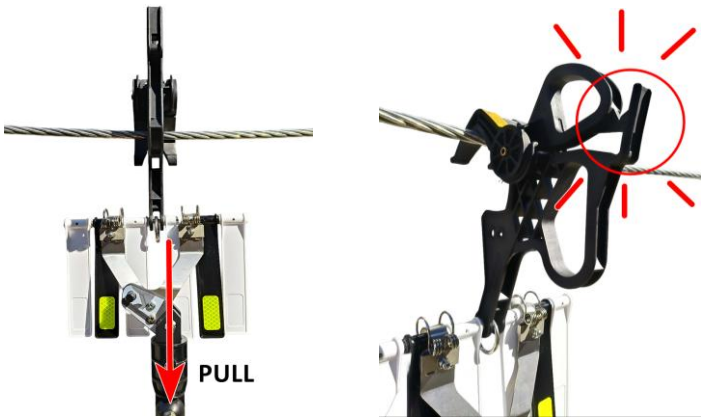
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B3: Install the Device to Powerline

B3.1	Slowly raise the device to the Powerline, rest the Bottom Clamp against the Line, and gently push the Hot Stick to release the trigger.	
B3.2	The installation is complete, push the Hot Stick up and then away from the device to remove the tool, to prevent the devices rotating.	



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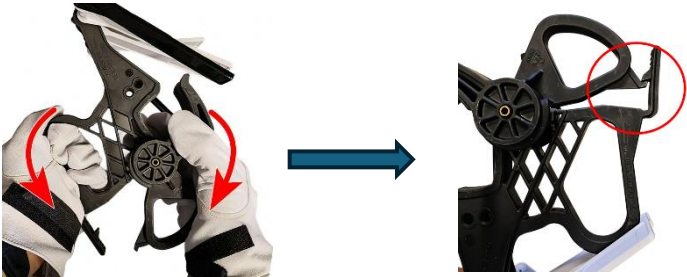
B4: Uninstall A Device from a Powerline		
B4.1	Rest the Metal springs along the marking element (found to the right)	
B4.2	Pull down till the LLCR-V-BE springs lock around the LINEZEBRA. An audible click should be heard when locked.	
B4.3	Continue to pull the clamp downwards until the trigger mechanism engages (similar to C2.1). An audible click should be heard.	
B4.4	Push the Hotstick upwards and forwards to lift the Clamp from the line.	

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Method C:

Install and uninstall with the standard Shotgun.

Shotgun Stick is not supplied by Balmoral Engineering (industry standard tool)

C1: Engage the Device to the Tool		
	Be aware the Strong Spring, wear protective gloves during the whole process.	
C1.1	Open the device as shown above until the device is locked by the trigger.	
C1.2	Engage the device on to the Shot Gun Hook to firmly hold.	
C2: Install the Device to Powerline		
C2.1	Slowly raise and locate the Powerline between the Device's two Clamps, gently push Shot Gun Stick to release the trigger.	
C2.2	After installation, release the Hook to remove Shot Gun Stick from the device.	

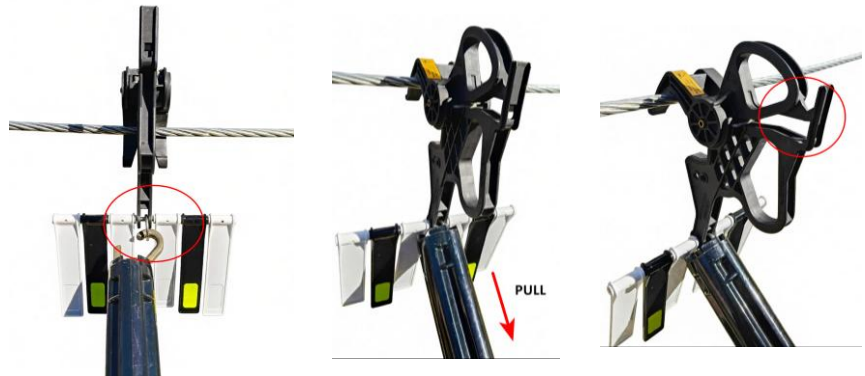


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C3: Uninstall

C3.1

Shotgun Stick Hook to hold the O-Ring of LINEZEBRA, pull to open the clamps to lock by its trigger to remove the device from the Powerline.



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3. In-Service Care

It is recommended that LINEZEBRA Spring Clamp Products should be cared for in the following manner:

Storage:

- Store LINEZEBRA products in the original packaging before installing to provide suitable protection of the products.
- **Ensure the trigger of the Spring Clamp is not bent or deformed which may affect the installation process.**
- Store all products in a stable, room temperature environment, away from sharp objects, direct sunlight, ozone, and steam.
- Ensure the products are kept away from oil-based products and hydrocarbon derivatives.
- It is advisable to use appropriate storage devices that maintain these conditions.

Use:

- Before each use, visually inspect all LINEZEBRA products for any signs of defects.
- Any product showing signs of damage or defect should be removed from service immediately.

Periodic Visual Inspection and Care:

- Where practical, all LINEZEBRA products should undergo periodic inspection and cleaning to prolong service life.
- To assist with visual inspection, ensure materials are:
 - Cleaned to remove dirt and grime that could obscure defects.
 - We recommend using a mild detergent or Polywater® Rubber Goods Cleaner.
 - Remove any defective products from service.

Inspection Checklist:

- Inspect for defects such as cracks, loose components, or missing parts.
- Check the following:
 - The whole device is free from cracks or distortion and in good operational condition.
 - Soft jaws are intact.
 - Clamps open and close smoothly.
 - The trigger should be carefully repositioned by the operator before installing if it is deformed.
 - Reflectors are securely attached to the Streamers of LINEZEBRA.
 - Metal components are free from rust, distortion, or chemical damage.
 - The Flappers, Streamers and Flags swing freely.