

Landing Star T1..T4

Manual for mounting an external additional ferrite bead (for EMI Suppression). Use for Landing Star T1, T2, T3, T4 reflectors and their WIG-WAG modifications



Description:

The ferrite bead is used as an additional mounting element for the Landing Star series reflectors. It is installed in cases where the operation of the Landing Star product causes interference to penetrate into sensitive devices (e.g. audio, ...). Adding a ferrite bead to the power wires greatly suppresses this interference, and unwanted interference from the reflector is no longer visible. It is usually mounted when using an external WIG-WAG switch. The ferrite bead must not be mounted further than 10 cm from the body of the reflector. If the product has more wires (+12V, GND, SYNC, SET), we thread the ferrite bead only on the power wires **+12V** and **GND**.

Installation procedure:

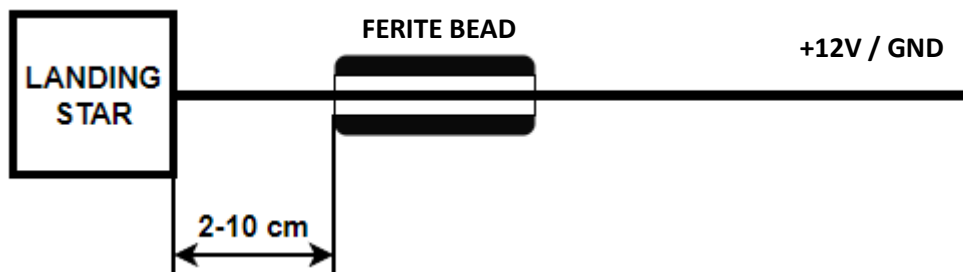
- 1) Prepare the **ferrite bead**.



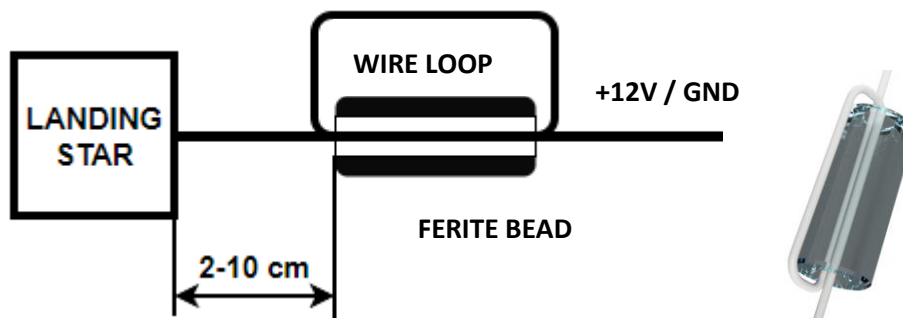
- 2) Prepare the **Landing Star** product - the wires must be untangled.



- 3) Pass the +12V and GND power wires together through a ferrite bead and place it at the desired distance of 2-10 cm from the body of the reflector. Do not place the bead at a greater distance. In another way, the interference suppression could be ineffective.

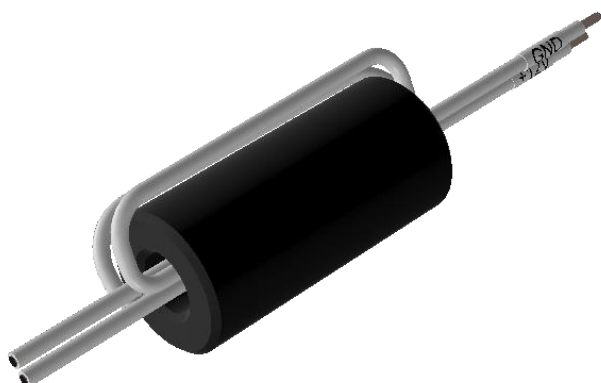


- 4) Pull the power wires through the bead once more. A wire loop is created. Do not tighten them. A preview of the loop of one wire through the bead is in the picture on the right.



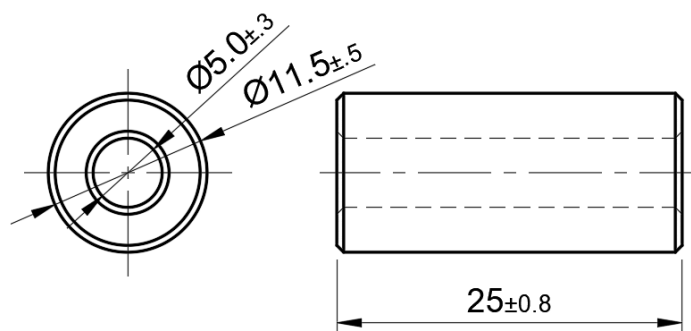
- 5) Align the +12V and GND wires.

- 6) Check that the ferrite bead is 2 to 10 cm away from the reflector. If it is too far, move it closer.
- 7) Tighten both loops by pulling on the free ends of the wires.



- 8) It is advisable to hide the ferrite bead in the shrink tube (min. \varnothing 15 mm and length approx. 36 mm) and thereby lock its position on the conductors.
- 9) Now it is possible to connect the product to the electrical installation according to the relevant instructions for the given type of product.
- 10) Due to its weight and expected operation in strong shocks, the ferrite bead must be suitably mechanically attached. There would be a risk of mechanical damage to it.
- 11) The Landing Star product can now be fixed mechanically according to the relevant instructions for the given type of product.

Dimensions of the anti-interference bead (mm):



Important notice and warnings:

Thank you for purchasing this product. For a comfortable and safe use of this product, please pay attention to THE ENTIRE MANUAL, especially the notes and warnings below.

- Although the device has been thoroughly tested to ensure maximum safety in all conceivable situations, THE RIGHT FUNCTIONALITY DEPENDS ON THE RIGHT INSTALLATION AND SETTINGS.
- Therefore, it is **NECESSARY to READ CAREFULLY and UNDERSTAND THIS MANUAL COMPLETELY.**
- Keep this manual printed in an airplane for cases of emergency or change of ownership.
- THIS PRODUCT IS NOT APPROVED FOR INSTALLING IN CERTIFIED AIRPLANES.
- The pilot MUST UNDERSTAND the control of this product before the first flight. DO NOT use the product unless you are sure how it works!
- Do not allow unauthorized persons to handle the installed product.
- After installing the product, before the first flight, turn on ALL possible sources of electromagnetic interference on board the aircraft and ensure that the instrument is functioning properly.
- Use of the device in conflict with this manual, with bad wiring, outside the allowed operating conditions, etc., may cause the device to malfunction or damage and endanger flight safety.
- If the product repeatedly indicates an error, do not use it and turn off the power!
- AVOID contact with liquids and chemicals.
- Before installation, check the mechanical integrity of the device and its accessories.
- DO NOT disassemble the device!
- After installation, carefully check the functionality of the device and its installation.
- The responsibility for the installation is entirely with the installer.
- Responsibility for performed control actions based on information indicated by the product is fully with the operator (pilot). The operator must be able to evaluate an incorrect indication even if the product does not indicate an error.
- Ensure regular maintenance of the aircraft main battery.
- If you do not agree to the notes and warnings above, do not use this product.

Company LAMBERT AERODEVICES s.r.o reserves the right to change or improve the product or manual without prior or subsequent notice.

Document history:

<i>Date (DMY)</i>	<i># Rel</i>	<i>Description</i>	<i>Author</i>
20.09.2023	0	Initial version	NEPOR



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