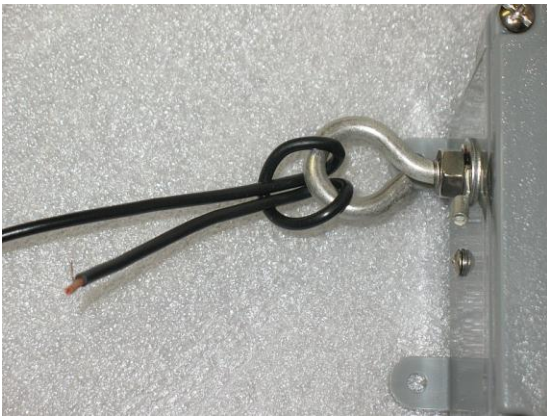
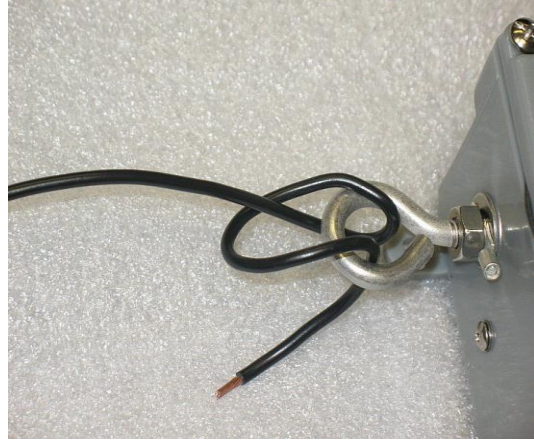


Installation Notes

Thank you for purchasing from **Balun Designs**. Your balun or unun is built to provide a very long service life by following a few simple installation procedures:

- **Although the balun enclosure is weatherproof and waterproof, connectors are not.** Please be sure to wrap all coax and wire connections in coax seal or your favorite weather sealant to prevent moisture from seeping in through the openings.
- **Weep holes are intentionally omitted on several models because their mounting position is unknown. Weep holes are very important** to the longevity of your balun/unun. If they are not installed, condensate can build up inside the enclosure over a period of time and potentially cause a short or abnormal operation. They may be added by drilling **two** 1/16th holes at the low point of the enclosure using the balun's mounted orientation. Holes are usually drilled in the corners or sides, opposite each other, but can be added in any location. **Weep holes are installed during production only on models where the final orientation is known.** Models with weep holes already installed should be mounted with the holes pointing down. **If your balun/unun will be used strictly indoors then weep holes are not required.**
- **Do not to over tighten the cover of the enclosure.** The neoprene gasket under the cover is very effective and will provide the best seal by leaving approximately a 1/16th inch gap at the corners under the closing screws. **Over tightening the screws will warp the cover** causing the middle of the cover's sides to lift up. This will create a gap under the seal compromising the weatherproof integrity of the enclosure.
- **Please note any polarity markings** on your balun/unun. Reversing these connections can potentially cause damage to your transceiver and/or the balun or unun. **Power limits shown on labels are continuous duty ratings and should not be exceeded.**
- If you purchased a model with eyebolts, the solder lugs are easily removed by holding the eyebolt with one hand while using a 7/16ths open end wrench to loosen **the external locking nut** with the other. The lug has been modified for easy removal once the nut has been loosened. **It is not necessary to open the enclosure. Nylok** nuts are used on the inside of the eyebolt to prevent any movement of the internal locking nut. **Failure to remove the lugs before soldering can damage the enclosure!**





- If you purchased a **Tuner Balun**, you will have markings for connection polarity. **This is only required when the antenna in use has a direct ground at the feed point such as a long wire or vertical.** Polarity of the connections is not a concern if you are using the balun with **ladder line, window line or a balanced antenna** such as a loop or dipole.
 - After installation, **MAKE SURE ALL LOCKING NUTS ARE SECURE!!!** Failure to tighten stud or eyebolt outer locking nuts can cause erratic operation or create high contact resistance. This resistance leads to excessive heating and ultimately failure of the ferrite core(s). This type of failure is easily detected and will not be covered under your warranty.
 - **Scratches and scuffs on the sides and/or bottom of the enclosure are from the manufacturer's bulk shipping method and not from prior use.** These enclosures are purchased in large quantities to help maintain low pricing for our products.
 - **Any of the 2:1, 4:1 or 6:1 baluns and many of the ununs will show a dead short at DC. This is not the case when RF is present and terminals that indicate a short when checked with a DVM are not an indication of incorrect assembly.**

In no case will **Balun Designs** be liable for any incidental or consequential damages, which includes, but is not limited to, damage to equipment connected or attached to any product we sell. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

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