

MFJ

Yagi Boom-Mount Balun

Model MFJ-2911

INSTRUCTION MANUAL

CAUTION: Read All Instructions Before Operating Equipment

MFJ ENTERPRISES, INC.

300 Industrial Park Road
Starkville, MS 39759 USA
Tel: 662-323-5869 Fax: 662-323-6551

DISCLAIMER

Information in this manual is designed for **user purposes only** and is *not* intended to supersede information contained in customer regulations, technical manuals/documents, positional handbooks, or other official publications. The copy of this manual provided to the customer will *not* be updated to reflect current data.

Customers using this manual should report errors or omissions, recommendations for improvements, or other comments to MFJ Enterprises, 300 Industrial Park Road, Starkville, MS 39759. Phone: (662) 323-5869; FAX: (662) 323-6551. Business hours: M-F 8-4:30 CST.

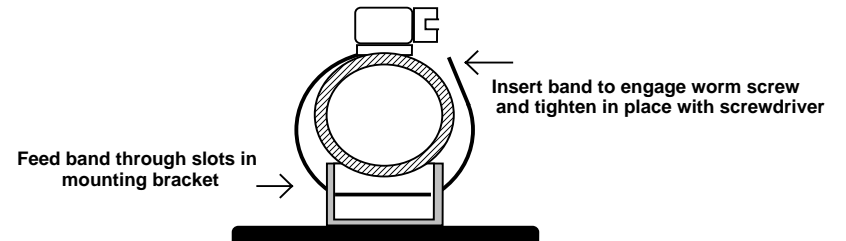
MFJ-2911 Yagi Boom-Mount Balun

Introduction

The MFJ-2911 is a 1:1 current-choke style balun that mounts on the boom of your HF or 6-Meter Yagi to transition from unbalanced feedline (coax) to the balanced driven element. By isolating the element from the outer surface of the coaxial cable shield, it prevents unwanted pattern distortion from feedpoint imbalance, radiation from the outer surface of the coax shield, element de-tuning, RFI to consumer electronics, and noise transfer to the radio's receiver. The MFJ-2911 uses a toroid-style transmission line choke that is rated for maximum legal power on SSB and CW and that delivers an impressive 35 dB of through-transmission (S21) common-mode isolation. The unit is housed in a hard-shell molded case with a premium-grade SO-238 connector mounted on the bottom surface to form a drip loop and to keep rain away from the coaxial connection. A simple-to-install hose-clamp mount holds the balun firmly in place and all-stainless hardware ensures maximum durability and long product life.

General Installation

Install the balun clamp onto the antenna boom, as shown below. Position the balun close as possible to the driven element terminals to minimize pigtail lead length (a minor adjustment to shorten the driven element may be required if pigtails add to the overall length). Trim pigtails for a short direct connection and either strip and wrap the wire ends around the driven element's terminals, or install crimp lugs (not provided).

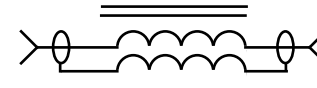


The balun's SO-238 input connector is located on the bottom surface of the enclosure. When installing cable, form a drip-loop to protect the mating PL-259 from water incursion. Applying tape or coax seal around the PL-259 is also recommended for added protection and to prevent the connector from loosening over time.

Specifications:

Impedance:	50 Ohms
Frequency Range:	3.5 – 50 MHz
Isolation:	35-dB common-mode isolation (S21) 7-50 MHz
Power Rating:	1.5 kW PEP, SSB and CW (de-rate 50% for RTTY)

Schematic Diagram:



Technical Assistance

If you have any problem with this unit first check the appropriate section of this manual. If the manual does not reference your problem or your problem is not solved by reading the manual you may call *MFJ Technical Service* at **662-323-0549** or the *MFJ Factory* at **662-323-5869**. You will be best helped if you have your unit, manual and all information on your station handy so you can answer any questions the technicians may ask.

You can also send questions by mail to MFJ Enterprises, Inc., 300 Industrial Park Road, Starkville, MS 39759; by Facsimile to 662-323-6551; or by email to techinfo@mfjenterprises.com. Send a complete description of your problem, an explanation of exactly how you are using your unit, and a complete description of your station.

NOTES:

LIMITED 12 MONTH WARRANTY

MFJ Enterprises, Inc. warrants to the original owner of this product, if manufactured by MFJ Enterprises, Inc. and purchased from an authorized dealer or directly from MFJ Enterprises, Inc. to be free from defects in material and workmanship for a period of 12 months from date of purchase provided the following terms of this warranty are satisfied.

1. The purchaser must retain the dated proof-of-purchase (bill of sale, canceled check, credit card or money order receipt, etc.) describing the product to establish the validity of the warranty claim and submit the original or machine reproduction of such proof of purchase to MFJ Enterprises, Inc. at the time of warranty service. MFJ Enterprises, Inc. shall have the discretion to deny warranty without dated proof-of-purchase. Any evidence of alteration, erasure, or forgery shall be cause to void any and all warranty terms immediately.

2. MFJ Enterprises, Inc. agrees to repair or replace at MFJ's option without charge to the original owner any defective product under warrantee provided the product is returned postage prepaid to MFJ Enterprises, Inc. with a personal check, cashiers check, or money order for **\$10.00** covering postage and handling.

3. This warranty is **NOT** void for owners who attempt to repair defective units. Technicalconsultation is available by calling the Service Department at 662-323-0549 or the MFJ Factory at 662-323-5869.

4. This warranty does not apply to kits sold by or manufactured by MFJ Enterprises, Inc.

5. Wired and tested PC board products are covered by this warranty provided **only the wired and tested PC board product is returned.** Wired and tested PC boards installed in the owner's cabinet or connected to switches, jacks, or cables, etc. sent to MFJ Enterprises, Inc. will be returned at the owner's expense unrepaired.

6. Under no circumstances is MFJ Enterprises, Inc. liable for consequential damages to person or property by the use of any MFJ products.

7. Out-of-Warranty Service: MFJ Enterprises, Inc. will repair any out-of-warranty product provided the unit is shipped prepaid. All repaired units will be shipped COD to the owner. Repair charges will be added to the COD fee unless other arrangements are made.

8. This warranty is given in lieu of any other warranty expressed or implied.

9. MFJ Enterprises, Inc. reserves the right to make changes or improvements in design or manufacture without incurring any obligation to install such changes upon any of the products previously manufactured.

10. All MFJ products to be serviced in-warranty or out-of-warranty should be addressed to:

**MFJ Enterprises, Inc.
300 Industrial Park Road
Starkville, Mississippi 39759 USA**

and must be accompanied by a letter describing the problem in detail along with a copy of your dated proof-of-purchase.

11. This warranty gives you specific rights, and you may also have other rights which vary from state to state.



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