

# MFJ

## *Potentiometer Box*

*Model MFJ-5900*



### INSTRUCTION MANUAL

CAUTION: Read All Instructions Before Operating Equipment

## MFJ ENTERPRISES, INC.

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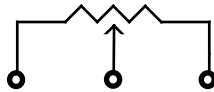
## MFJ-5900 Potentiometer Box

### Introduction:

More than a “sub” box, the MFJ-5900 gives you six linear-taper potentiometers with calibrated scales that cover spans from 300 Ohms to 1 Megohm. Universal terminal posts accept test probes, patch cables, or hookup wire. With six discrete potentiometers at your disposal, you can set up combination coarse/fine voltage controls, substitute more than one resistor in a test circuit at one time, or even simulate complex resistor networks and non-linear potentiometer control tapers. Designed for people who work with circuits every day, the MFJ-5900 is the perfect tool for experimenters, designers, and service technicians.

### Operation:

The MFJ-5900 front panel markings are self-explanatory with schematic labeling for all terminal posts.



### Potentiometer Range:

When rotating potentiometers fully counter-clockwise, *note that the terminal resistance drops to zero ohms -- not the lower value appearing on the calibrated scale* (controls rotate past the first scale marking). When setting up a dc test circuit involving a power source, always disconnect power until you are finished with the initial setup. Inadvertently turning a pot to zero could short-circuit your voltage source and damage components by drawing excessive current.

***Important Warning:*** Always remove power before setting up dc-voltage networks. Accidentally turning controls fully counter clockwise reduces the terminal resistance to zero and could cause a damaging short circuit!

### Resistor Power Dissipation Rating:

The power rating for all MFJ-5900 pot values is 1/2-W. Never connect potentiometers to circuits that will cause dissipation to exceed these specified ratings.

### Technical Assistance:

If you have any problem with your MFJ-5900, first reread the information sheet. If it doesn't reference the problem or fails to solve it, 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 the unit, manual, and all other pertinent information handy so you can answer any questions the technicians may ask.

You may also submit questions by mail to MFJ Enterprises, Inc., 300 Industrial Park Road, Starkville, MS 39759, or by email to [techinfo@mfjenterprises.com](mailto:techinfo@mfjenterprises.com). Send a complete description of your problem along with an explanation of exactly how you are using your resistance box.

## 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 **\$7.00** covering postage and handling.
3. This warranty is **NOT** void for owners who attempt to repair defective units. Technical consultation 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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