

## MFJ World Band Explorer Model MFJ-306

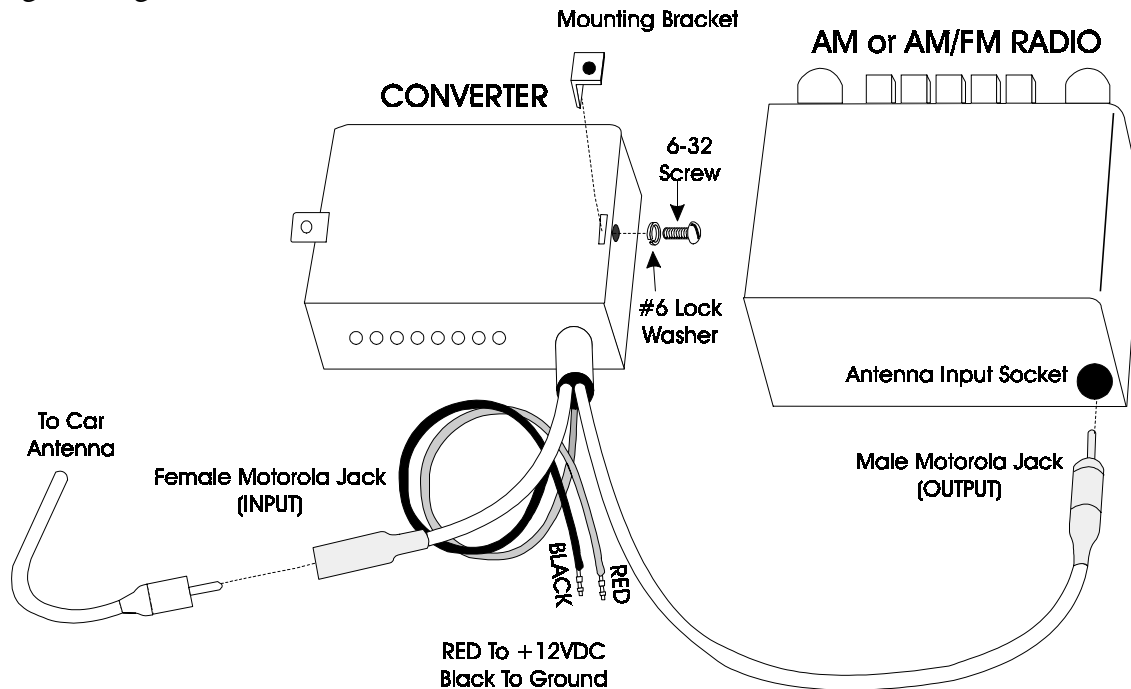
Thank you for purchasing the MFJ-306 World Band Explorer. The MFJ-306 converts your AM or AM/FM car radio into a World Band shortwave receiver that covers the entire 19, 25, 31, and 49 meter international shortwave broadcast bands. The MFJ-306 is designed to operate with any AM or AM/FM car radio including the newer digital radios. This converter will add a new dimension of shortwave listening pleasure to your AM radio.

### Installation

Install the included mounting brackets on the converter as shown in Figure 1. Mount the converter close to your cars radio in any convenient location.

Unplug the antenna cable from your car radio and plug it into the input (female) antenna connector on the converter. Plug the output (male) connector from the converter into the car radio antenna jack.

Connect the black ground wire from the converter to any convenient metal that is connected to the frame of the car. Connect the red power wire to a fused 12 Volt DC source such as the cigarette lighter socket or the fuse block.



### Operation

After properly mounting and installing the converter, you are ready tune into the world. First turn the converter off by pressing the red button out then turn your AM radio on. You should have normal operation of your radio while on AM or FM. With the power off the converter is automatically bypassed and the antenna is connected directly to your car radio.

Switch the converter to World Band by pressing the World Band AM/FM switch in. The red LED will come on. A combination of the left and right band select switches is used to select the desired band. Refer to the table below for the position of each of the buttons to select a band.

Left button	Right button	Band
<b>IN</b>	<b>IN</b>	19 meters
<b>IN</b>	<b>OUT</b>	25 meters
<b>OUT</b>	<b>IN</b>	31 meters
<b>OUT</b>	<b>OUT</b>	49 meters

After the desired band is selected set the clarifier knob to the center position. The converter covers approximately 200KHz above and 200KHz below the 1000KHz center frequency on the AM radio dial. Adjust the tuning knob on your AM radio between 800KHz and 1200KHz to tune in shortwave stations. When a station is found the clarity knob on the converter can be adjusted to fine tune your reception.

The newer digital radios can only tune to discrete frequencies (usually 10KHz apart). For example, the radio tunes from 920KHz to 930KHz in one step so all the frequencies that fall between these values are skipped. The clarifier knob on the converter is used to acquire those frequencies that cannot be tuned in by your digital AM radio. Set the clarifier knob to the center position and set your radio to a frequency between 800KHz and 1200KHz. Adjust the clarifier knob on the converter to tune into the desired shortwave stations. If a station is not found change the frequency on your car radio and repeat the process until the desired station is found.

Table 2 below shows the frequencies covered with each band selected.

Shortwave Band	Frequency (MHz)	
	From AM Dial 800KHz	To AM Dial 1200KHz
19 meters	15.075	15.475
25 meters	11.638	12.083
31 meters	9.438	9.838
49 meters	5.875	6.275

**Operation Notes**

The following is some useful information about the bands covered by the MFJ-306 World Band Explorer.

1. 19 meters (15.1MHz - 15.45MHz) provide excellent daytime listening and some nighttime listening during the summer months.
2. 25 meters (11.7MHz - 11.95MHz) is usually good for both day and night reception.
3. 31 meters (9.5MHz - 9.75MHz) also good for both day and night reception.
4. 49 meters (5.95MHz - 6.2MHz) The reception here is normally very good. There are many very popular and strong International Broadcast stations in this band.

## FULL 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 of machine reproduction or 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. reserves the option to repair or replace, at no charge to the original owner, any defective product under warranty, provided the product is returned postage prepaid to MFJ Enterprises, Inc. with a personal check, cashiers check, or money order for **\$7.00** to cover postage and handling.
3. MFJ Enterprises, Inc. will supply replacement parts, free of charge, for any MFJ product under warranty. A request for a replacement part must include a dated proof of purchase and a **\$5.00** personal check, cashiers check, or money order to cover postage and handling.
4. This warranty is **NOT** void for owners who attempt to repair defective units. Technical consultation is available by calling (601) 323-5869.
5. This warranty does not apply to kits sold by or manufactured by MFJ Enterprises, Inc.
6. 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, unrepared.
7. Under no circumstances is MFJ Enterprises, Inc., liable for consequential damages to person or property by the use of any MFJ products.
8. **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.
9. This warranty is given in lieu of any other warranty expressed or implied.
10. 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.
11. 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.
12. This warranty gives you specific rights, and you may also have other rights which may vary from state to state.