The MFJ-133 is a unique timepiece offering 2 clocks in one. Both the main clock and secondary clock are always in sync because they use the same time base. The Main Time can be set for any US time zone. The Time II display can be set for any time zone (best suitable for UTC). The MFJ-133 works by receiving the time radio signal generated by the US Atomic Clock located in Colorado. Any place that can receive the signal can use the MFJ-133. Any place that cannot receive the signal will have to set the time manually. The Atomic Clock in Colorado is operated by the US Department of Commerce's National Institute Standards and Technology. <u>To enhance good reception of the signal, avoid placing your MFJ-133 near television sets, metal surfaces, computers, or any other electrical device that may interfere with the reception of the radio signal</u>.

Battery Installation
- Remove the battery cover and insert two fresh AAA batteries. Be sure to insert the batteries with the correct polarity as shown inside the battery compartment.
- Replace the battery cover after installing the new batteries.
- After the batteries are inserted, all LCD segments will be illuminated and the alarm will sound. After a few seconds the clock will begin keeping time at 12:00 AM.
- If the LCD segments on the display will become dim, the batteries are drained and it is time to insert two fresh AAA batteries.
- The RESET button located in the battery compartment can be pressed at any time to re-initialize the MFJ-133.

Initial Start-Up
After inserting new batteries into the MFJ-133, the clock will automatically begin searching for the time signal. The radio tower symbol on the LCD display will pulse to indicate that the MFJ-133 is searching for the time signal. If the time signal is received, the radio tower symbol will stop pulsing and remain steady with all segments illuminated. When the time signal is received, it will take the 3 to 15 minutes for synchronization.

The MFJ-133 will search for the time signal once a day at 2:00 AM, when atmospheric conditions are best for receiving the time signal. The MFJ-133 will automatically adjust the time if necessary. If the MFJ-133 is out of the signal area and cannot receive time signal, the MFJ-133 must be set manually. Please follow the instructions under Manual Time Setting.

Time Zone Setting for Main Time Display
- Pull the SET button down and hold it until the MFJ-133 beeps and the USA map in the lower right corner begins to flash.
- Press the ? or ? buttons to select your US time zone.
- After you have set the time zone, pull the SET button down and hold it until the MFJ-133 beeps and the USA map in the lower right corner stops flashing.
- If the time signal was not received, pull the SET button down briefly. This will initiate time signal reception. This can be done at any time.

Manual Time Setting
- To set the time manually, pull the SET button down and hold it until the MFJ-133 beeps and the USA map in the lower right corner begins to flash.
- Pull the SET button down briefly. The Main Time Display will flash.
- Press the ? or ? buttons to change the time one minute at a time. Press and hold the ? or ? buttons to change the time in fast mode.
- After setting the time, pull the SET button down and hold it until the MFJ-133 beeps and the USA map in the lower right corner stops flashing.

Alarm Setting
- To set the alarm, press the ? or ? buttons to change the alarm time. Pressing the ? or ? button once will increase or decrease the alarm time by one minute. While the Alarm time is flashing, you can continue to press the ? or ? buttons to change the alarm time. Pressing and holding the ? or ? buttons will adjust the alarm time in fast mode.

- After the Alarm time is set, do not press any buttons for 5 seconds. The Alarm time will stop flashing.

ALARM
- Place the Alarm switch in the upper position to activate the alarm. The MFJ-133 will beep and display ◉ on the LCD to indicate the alarm is active.
- Place the Alarm switch in the down position to deactivate the alarm and the ◉ will disappear.
- When the Main Time reaches the Alarm Time, the Alarm will sound and the Backlight will illuminate.
- After the alarm sounds, place the Alarm switch in the down position to turn off the alarm.

or
- After the alarm sounds, press the SNOOZE button. The alarm will stop and the ◉ will flash. The alarm will sound again 5 minutes later.

TIME II Setting
- Press the MODE button until TIME II appears in the upper right corner.
- Then press the TIME II SET button located in the battery compartment to advance the hour of the TIME II display.
- After adjusting the TIME II display to the desired time, replace the battery cover.

12/24 Hour Format
For the Main Time Display:
- Press the MODE button until the Alarm Time appears in the upper right corner.
- Then press the 12/24H button located in the battery compartment to toggle between 12 Hr and 24 Hr time display.

For the Second Time Display
- Press the MODE button until TIME II appears in the upper right corner.
- Then press the 12/24H button located in the battery compartment to toggle between 12 Hr and 24 Hr time display.

Backlight
- Press the SNOOZE button once. The LCD display will be illuminated for 4 seconds.

Daylight Savings Time
For the Main Time Display:
- The Main Time Display receives Daylight Savings Time information from the time signal and will automatically adjust to the signal received. This feature cannot be disabled.

For the Second Time Display
- Press the MODE button until TIME II appears in the upper right corner.
- Then press the DST button located in the battery compartment to toggle between Daylight Savings Time and Standard Time.
- The TIME II display is not affected by the Daylight Savings Time receive from the time signal.

Note: We recommend setting the Main Time for your local time and Time II for UTC.

Note: Pressing the MODE button toggles between TIME II and Alarm time in the upper right display.
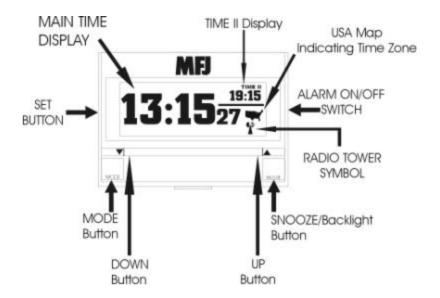
WARNING
- This clock is designed for consumer use and not a scientific instrument. The success of time reception is not guaranteed and subject to the condition of the environment and distance from the signal source.
- This clock is designed for indoor use only.
- Please avoid exposure to high humidity, high temperatures, vibration, shock, and direct sunlight.
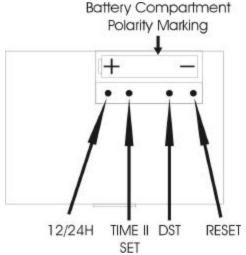
12 MONTH LIMITED WARRANTY

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 warranty, 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. MFJ Enterprises, Inc. will supply replacement parts free of charge for any MFJ product under warranty upon request. A dated proof-of-purchase and a $5.00 personal check, cashiers check, or money order must be provided 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 (662) 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 un-repaired.

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 vary from state to state.

MFJ-133
LCD Atomic Desk Clock
Operating Instructions

FUNCTIONS & SPECIFICATIONS
Jumbo Main Time Display with Seconds
Second Time Display
Alarm
5-Minute Snooze
4 Second Backlight
Protective Cover for Traveling
Receiver set at 60 kHz for WWVB reception.