meduci, LLC
Safety Instructions
Operating Use Instructions
Owner's Manual / Users Guide

for model:

- MW-2 PLL
- MW-2 AMAX

(((Stereo))) AM Ultra Wide Bandwidth High Fidelity Audio World Tuner Precision Audio Component

Effective Date: October 17, 2013

http://meduci.com

AVIS RISQUE DE CHOCELECTRIQUE - NE PAS OUVRIR. within an equilateral triangle, is intended sufficient magnitude to constitute a risk uninsulated "dangerous voltage" within the product's enclosure that may be of The lightning flash with arrowhead. to alert the user to the presence of of electric shock to persons.



The exclamation point within an equiateral triangle is intended to alert the operating and maintenance (servicing) instructions in the literature acuser to the presence of important companying the appliance.

NOT EXPOSE THIS EQUIPMENT TO FIRE OR ELECTRICAL SHOCK, DO WARNING - TO REDUCE RISK OF RAIN OR MOISTURE.

NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.

To prevent the risk of electric shock, do not remove cover or back. No user-serviceable parts inside. Thank you and congratulations for your purchase of this high quality meduci product. Your decision to own this meduci tuner ranks you at the very top among discriminating music listeners.

Prior to operating this high quality electronic unit, please take a short time to thoroughly read this operation manual, so that you can obtain the maximum enjoyment from it. We want you to be as familiar as possible with all the features and functions of your new meduci. This manual should be retained for future reference and used to answer your operation questions as they arise.

<u>IMPORTANT SAFETY</u>	INSTRUCTIONS! PLEASE READ THEM PRIOR
TO OPERATING THIS	EQUIPMENT APPARATUS.
SERIAL NUMBER:	PURCHASE DATE:

- Read instructions All of the safety and operating instructions provided herein should be read prior to operating this meduci tuner.
- 2. Retain instructions These safety and operating instructions should be retained for future reference.
- Head warnings All warnings printed on the tuner and listed in these operating instructions should be adhered to by the user/operator/owner of this meduci power unit and tuner.
- 4. Follow instructions All operating, care/use, and other instructions need to be followed. Do not touch any sharp edges of tuner, power unit.
- 5. Water and moisture Do not use this apparatus near water. This meduci tuner and power unit should not be close to any water for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement or wet room, or near swimming pool, et cetera. To prevent fire or electrical shock, do not expose this tuner and power unit to rain, moisture, or water. Risk of electric shock DRY LOCATION AND INDOOR USE ONLY. Power unit is to be correctly oriented into a wall-mounted household power outlet, operated in vertical-mount or floormount position. Do not use extension cords with power unit. Clean with a dry cloth.
- 6. Carts and stands This tuner should not be used with cart or stand.
- Wall or Ceiling Mounting This tuner and power unit should not be mounted to any wall or ceiling. Power unit is for vertical or floor mount use only. Do not place your tuner near magnetic objects.
- 8. Ventilation This tuner should be situated so that its location or position does not interfere with its proper ventilation. For example, the tuner and power unit should not be situated on a bed, sofa, rug, or similar surface, that may block the proper ventilation of the tuner and power unit. Tuner and power unit should not be placed in a built-in installation, such as bookcase or cabinet, which may cause elevated operating temperatures to occur, or impede the air flow to / from tuner and the power unit.
- 9. Heat Do not install or operate tuner or power unit near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Do not leave your tuner in temperatures above 104 degrees F (40 deg C) such as in a sauna or parked vehicle. Install this tuner and power unit in a cool, dry, and clean place away from windows, sources of excessive vibration, dust, moisture, and cold temperatures. Also avoid sources of humming (such as transformers and motors).
- 10. Power Sources For best results, this tuner should be connected to the linear-mode power unit only of the type described in these operating instructions, with voltage listed herein, and/or as marked on the rear of tuner. Do not use switch-mode power supply. Power unit has to be listed by Underwriters Laboratories (UL) and designated as "plug-in class-two transformer." Using this meduci tuner and power unit with higher input voltage than specified is dangerous, and may result in fire. meduci will not be held responsible for damage resulting from the use of this tuner with line frequency and input voltage other than that specified. For USA and territories and Canadian provinces, use power unit CUI DPD120050-P5P, or equivalent.

- 11. Power-Cord Protection Power-supply cords leading from power unit and tuner should be routed so that they are not likely to be walked upon or pinched by items placed upon them or against them. Pay particular attention to cords at plugs, convenience power receptacles, and the point where cords exit from the tuner and power unit. Do not use force on switches, controls, or connection wires. When moving this tuner, first disconnect the power unit from the wall outlet, and then disconnect the plugs connected to the tuner (grasping at the plug and delicately pushing outward). Never pull the wires themselves. General appearance of the power unit and tuner shall be without deformation, cracks, or corrosion; otherwise do not use, and refer to service personnel for repair.
- 12. Cleaning This tuner should be cleaned only as recommended by the manufacturer. Do not attempt to clean this tuner with chemical solvents; this will damage the finish. Use a clean, dry cloth.
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 13. Non-use Periods The power unit of the tuner should be disconnected from the wall outlet household power supply when not being used.
- 14. Object and Liquid Entry Care should be taken so that objects do not fall into, and liquids are not spilled onto, or inside the tuner. Do not expose this tuner to rain, moisture, dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on or near this tuner.
- 15. Damage Requiring Service This tuner should be serviced by qualified service personnel when the A.)Power supply cord and/or the plug have been damaged; B.)Objects have fallen upon or into the tuner or power unit; C.)Liquid has been spilled on or into the tuner or power unit; D.)The tuner or power unit have been exposed to rain; or E.)Tuner or power unit does not appear to operate normally, or exhibits a marked change in performance; or F.)Tuner or power unit has been dropped; or G.)Cabinet housing has been damaged, cracked, deformed, or corroded.
- 16. Servicing The user should not attempt to service the tuner or power unit. All servicing should be referred to qualified service personnel.
- 17. Power Lines Tuner, power unit, and antenna need to be located away from all power lines.
- 18. Grounding or Polarization Precautions should be taken so that the grounding, polarization, and other safety designs are not defeated on this tuner or power unit.
- 19. Outdoor Antenna Grounding Do not use any outside antenna with this tuner, unless it is approved by meduci, LLC. Any antenna connected to this tuner should be grounded, so as to provide some protection against lightning bolts, electrical voltage surges, and built-up static charges. To prevent lightning damage to the tuner, always remove the power unit from household power outlet, and also disconnect the antenna cable to tuner when there is a thunderstorm, or any other severe, threatening, or inclement weather present.
- 20. Digital signals generated by this tuner and power unit may interfere with other components, such as receivers, tuners, television sets, and computers. Move this tuner and power unit farther away from other such components, if interference is observed.
- 21. Be careful which antenna and RF pre-selector you connect to your tuner.

 This tuner is best suited for an external indoor tunable loop antenna (such as TERK Technologies Audiovox AM Advantage 1000).
- 22. Use only attachments/accessories specified by meduci for this tuner.
- 23. Completely disconnect this tuner from the AC mains power source when not in use. Disconnect the power supply cord plug from the AC household receptacle. The mains plug of the power unit shall remain readily operable.

User Instructions

Connect the user-supplied AM external indoor tunable loop antenna to the tuner's rear panel RCA jack labeled "AERIAL IN." Depending on the AM antenna used, you may need to provide 1/8" monaural male-to-RCA shielded patch cable to properly facilitate this antenna connection from tuner to antenna. Remember that the radio's performance is only as good as the RF pre-selector and antenna system attached to it!

There are two audio line-level outputs on the rear panel of tuner. Connect user-supplied cable from tuner's "LEFT" rear-panel RCA jack to the "LEFT" input on user-supplied stereo amplifier, stereo receiver, self-powered amplified speakers, computer speakers, or other amplifier. This jack and cable connector may be colored black or white.

Connect user-supplied cable from tuner's "RIGHT" rear-panel RCA jack to the "RIGHT" input on stereo receiver or amplifier. This jack and cable may be colored red. Consult the receiver or amplifier's owner / operation manual for further assistance with locating the correct "LEFT" and "RIGHT" input connections for your amplifier.

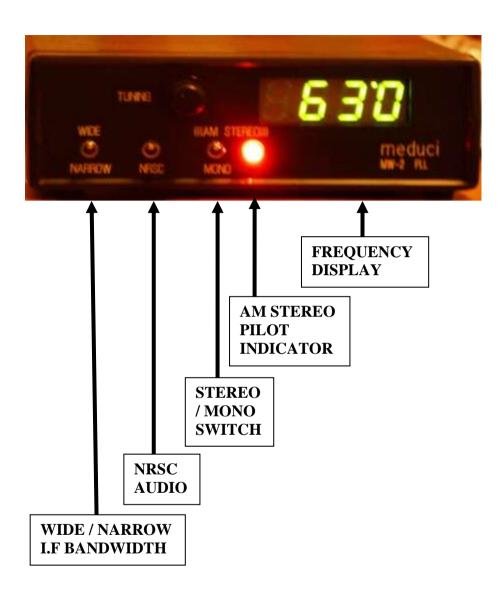
Connect the smaller round end power unit cord to the meduci tuner's rear panel power jack. Simply push plug into round black power jack located on rear of tuner, until it is seated in place. Insert the larger plastic box end of power unit prongs into normal AC household outlet. Ensure that the input voltage rating of the power unit matches the voltage from AC household outlet.

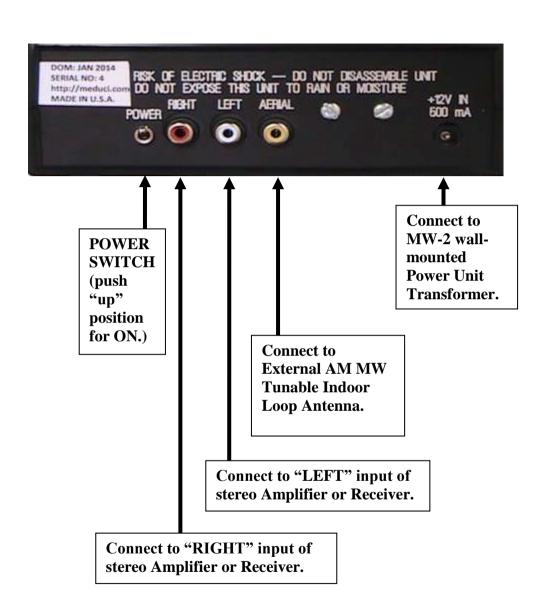
Move rear-mounted power switch to "UP" position to apply power to tuner. Rotate front-panel round tuning knob until desired AM station is tuned and heard. Since the external indoor tunable loop antenna acts as RF pre-selector and the first tuned RF stage, also rotate the antenna's knob to the center frequency of the desired AM station.

MW-2 tuner has the added feature of displaying the actual tuned frequency being directly received, thanks to very accurate PLL synthesizer and other circuitry.

MW-2 tuner that was shipped after October 17, 2013 incorporates the ultra wide bandwidth high fidelity audio circuitry, which is capable of up to 15 kHz audio frequency response.

This tuner does offer NRSC audio de-emphasis circuitry, wide / narrow audio bandwidth selection, auto stereo / forced mono switch, and automatic RF noise limiter.





Design Specifications

For MW-2 tuner family manufactured after 10/17/2013:

- Usable Sensitivity: 56 uV (mono)
- Tuning Frequency Range: 530 kHz to 1,710 kHz
- Center Intermediate Frequency: 450kHz
- Signal-to-Noise Ratio: 54dB (50 mV/m, 1050 kHz, mono)
- Total Harmonic Distortion (THD): 0.6% typical (50 mV/m, 1050 kHz, stereo)
- Selectivity: 18dB (wide mode)
- Audio Bandwidth Frequency Response: 20 Hz to 15kHz, -6dB (wide mode; dependant on external indoor tunable AM MW loop antenna)
- Stereo Separation: >25dB (1kHz, 50% modulation)
- Line Level Audio Output: 900 milli-Volts, peak-to-peak
- Supply Voltage Power Requirement: +12 volts D.C input at 500mA (center tip positive), 5.5mm (O.D) x 2.1mm (I.D) plug.
- Current Consumption: Less than 140 milli-Amperes continuous.
- Dimensions: 179.5mm long by 154mm wide by 51mm height

Risk of electric shock – do not disassemble tuner or power unit. There are not any user-serviceable parts inside. Refer servicing to qualified service personnel. Do not expose tuner or power unit to rain or moisture.

The use of this product may cause exposure to lead and other chemicals known in the state of California to cause cancer, birth defects, or other reproductive harm.

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:

- (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE AND
- (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY MEDUCI COULD VOID THE USER'S AUTHORITY TO OPERATE THIS DEVICE.