



Magnum Dynalab MD 209

HYBRID AUDIO RECEIVER

INSTRUCTION MANUAL

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Dear Valued Customer

Thank you for choosing the Magnum Dynalab *MD 209* Hybrid Audio Receiver. Great care has been given to the design, manufacturing and selection of components for the *MD 209* Hybrid Audio Receiver. This complete process insures optimum listening enjoyment for many years.

The FM Section is a special design completely researched and manufacturer in house. In fact, we are the only company in the world that does their own R.F. front end, choosing this practice due to the fact that no other manufacturer can produce one that meets our very rigid performance specifications. These rigid specifications insure that you can enjoy excellent FM reception regardless of signal conditions.

The Integrated Amplifier section of the *MD 209* Hybrid Audio Receiver is characterized by the simplicity of the circuit. We use only high grade components, ensuring that accuracy and realism of the music is the end result. The power supply with its specially designed transformer is at the heart of the stability and dynamics that the *MD 209* Hybrid Audio Receiver exhibits.

When using these high grade components, a considerable length of time is required for the *MD 209* Hybrid Audio Receiver to reach its full potential. Using either a high quality break-in disc or white noise from a FM tuner will help ensure optimum performance as quickly as possible.

Once again, thank you for including a MAGNUM DYNALAB product in your entertainment system. We are sure that you will have years of listening pleasure from your *MD 209* Hybrid Audio Receiver. Please be sure to register your product at www.magnumdynalab.com, and if there is anything else we can do, please call us on our toll free number, 1-800-551-4130, or contact us via email: info@magnumdynalab.com.

Respectfully yours,
Larry Zurowski

President

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UNPACKING YOUR MD 209 HYBRID AUDIO RECEIVER

Carefully inspect all sides of the shipping carton for damage. If there are marks or holes in the carton make note of the location in relation to the unit inside. Any obvious dents or scuff marks should alert you to the possibility of damage. Carefully remove the MD 209 Hybrid Audio Receiver from the end caps and wrapping, inspect all sides. Pay special attention to the corresponding areas on the unit where damage was found to the shipping carton. If damage is evident, document the type and extent of the damage, then repack the unit and call the dealer.

KINDLY DO NOT SEND THE UNIT BACK TO THE SHIPPER UNTIL YOU HAVE BEEN ASKED TO DO SO.

DO NOT DISCARD THE PACKING MATERIALS AND CARTONS. Should there be a necessity to return the unit for any reason, it must arrive safely and suitably packaged in order for our receiver to accept it from the carrier. Also, if the unit has incurred damage as a result of improper packaging, it is not likely that a claim for the damage against the carrier will be successful.

Likewise, we will ship your unit back to you only in factory-approved packaging. However, if the unit were to arrive at the factory on anything other than factory approved packaging, we reserve the right to return the unit in factory-approved packaging and charge the cost of the packaging to the shipper. This is the only way we can assure you of a safe return (damage by carrier excepted).

SETTING UP THE MD 209 HYBRID AUDIO RECEIVER

1. Position the receiver away from any spot which may have extremes in temperatures.
2. Place the receiver on a very rigid surface capable of holding 50 pounds (22 KG).
3. The heat sinks located inside the unit are used to keep the unit at a safe operating temperature. It is important that they are not covered and that the unit is not installed in a closed area where there is little air circulation. Ensure at least 2" of clearance on the left and right of the device, and 5" of clearance above the unit to allow for proper ventilation.
4. Allow the unit to sit for 2 hours at room temperature before connecting the power.
5. Connect your FM antenna cable to the **ANTENNA IN** terminal on the rear panel of the MD 209 Hybrid Audio Receiver. The connector on the rear of the unit is an "F" type (75 ohms) connector. Should your antenna cable be the 300 ohm twin lead you may convert to 75 ohm using a 300 to 75 ohm balun/transformer. Make sure that the center connector of the 75 ohm cable is properly inserted into the connector. If you do not have an antenna now, prepare the temporary straight wire antenna that is enclosed with the receiver. Connect one end into the center of the antenna input connector on the rear of the receiver.

Please note that the piece of wire provided should only be used as a device to test the receiver. To obtain optimum benefit from this fine tuner a better antenna may be required. Magnum Dynalab offers a number of different antennas. The antennas are discussed in the *Reception Techniques* in the back of the manual. If you have any questions please call your dealer or Magnum Dynalab.

6. Unwrap the EIA AC cord and plug the EIA end into the rear socket marked *Power Input*. Plug the other end of the AC cord into a 120/220/230/240 volt continuous AC power supply. Be sure that the voltage marked on the rear of the unit is the same as the AC source that you are using.

Note: Many countries that use 220/230/240 have a special FM transmitter, deemphasis for these countries may be different. Please consult Magnum Dynalab for the correct one.

SET UP OF THE INTEGRATED AMPLIFIER SECTION OF THE MD 209 HYBRID AUDIO RECEIVER

(All numbers correspond to the product diagram on Page 13)

CAUTION

As standard practice, you should always unplug the main power to the MD 209 Hybrid Audio Receiver whenever any source component, interconnect or loudspeaker is being installed in your system.

Now that you have positioned the MD 209 Hybrid Audio Receiver correctly and plugged it into the appropriate AC power supply, you are ready to hook it up to the speakers.

1. Hook up your speakers to the receiver insuring that the positive (+) terminal on the speaker is hooked up to the positive (+) output terminal on the receiver, likewise that the negative (-) is correctly hooked up. Be sure that all the connections are tightly affixed.
2. Turn the power switch on the front panel (1 on diagram) to the ON position. The LED above the power switch will turn on, and center display will light up indicating the selected source (i.e. Tuner, CD etc.).

SET UP OF THE TUNER SECTION OF THE MD 209 HYBRID AUDIO RECEIVER

1. Set input (2 on diagram) to Tuner. The input display will show "TU", the meters will light up.
2. Press the *stereo/mono* button (4 on diagram) to *Stereo*.
3. Press the bandwidth button "*BW 1*" button (5 on diagram), and LED will illuminate.
4. Press the *mute* button (3 on diagram), and LED will illuminate. For normal operation of the tuner, the mute switch should be on.
5. Press the *Signal Meter button* (7 on diagram), and LED will illuminate.
6. Turn the *Tuning Knob* (8 on diagram) until sound is heard, fine tune the station using the center tune meter (12 on diagram) and the signal strength meter (11 on diagram) as indicators. Check that the *Stereo* button's LED is on when properly tuned to a strong frequency (as indicated by the signal strength meter).

Press the *Stereo* button again and this will switch to *Mono* – the stereo light should go out.

7. If you hear a crackling sound push the *Multi-path* button (7 on diagram). This will switch the signal strength meter to indicate if the noise is a result of multi-path (a difference in timing between the RF signal received by the tuner's antenna and the tuner itself). If the meter showcases even a moderate level of multi-path, adjust the orientation of your antenna until the multi-path signal reads zero. If the needle on the tuner continually reads more than zero, move the antenna to a different location or rotate the antenna. If this does not correct the problem, a better or different antenna may be required. Please see *Reception Techniques* at the back of the manual.
8. You are now ready to listen and search for your favorite stations across the frequency. If you encounter difficult reception situations, please read the *Reception Techniques* section at the back of the manual.

Approximately 48 hours of “burn in” should eliminate any measure of drifting that you may encounter with the tuner section of the MD 209 Hybrid Audio Receiver. Please note that when your receiver is turned off for more than a couple of hours, upon powering “ON”, you may encounter a slight amount of drift on the station you were last tuned to (the center tune meter is not perfectly aligned). Please do not touch the dial; when the receiver warms back up, it will return to where it was last center tuned.

CONNECTING ADDITIONAL SOURCES TO THE MD 209 HYBRID AUDIO RECEIVER

1. Using your RCA cables, or balanced XLR cables, plug the source into one of the inputs marked in the back of the receiver.
2. Set the input on the receiver to match the input on the rear of the unit that the source is plugged into.
3. With volume set to zero, power up the new source, initialize the playback, and slowly adjust volume to desired level.

SET UP THE MD 209 HYBRID AUDIO RECEIVER WITH AN EXTERNAL HOME THEATER PROCESSOR

The MD 209 Hybrid Audio Receiver is equipped with a unity gain input (A3/SSP mode Input on the Pre-Amplifier section). This is a switchable input, meaning the input can be used as a normal pre-amplifier input or in unity gain mode.

To Connect to a Home Theater Processor

1. Turn off all the power to the receiver. Unplug the power cord to the MD 209 Hybrid Audio Receiver.
2. Connect your theater processor Main Left and Right interconnects into the MD 209 Hybrid Audio Receiver through the A3 input.
3. Connect your Main Left and Right speakers to the MD 209 Hybrid Audio Receiver speaker connections.
4. Re-connect the power to the MD 209 Hybrid Audio Receiver. Push the power button to the "ON" position.
5. Switch the input to A3. On the remote, select "input" and "00". You will see the display switch to P1 and then the volume display will go dark, indicating there is no volume being provided by the MD 209.
6. Input P1 is now the dedicated input for you to listen and control volume with your home theater processor (meaning that when you listen to regular music you use the preamplifier found in the MD 209 Hybrid Audio Receiver). Once input P1 has been activated into *Home Theater* mode, volume on input P1 will now be controlled via your external processor preamp.

HOOKING UP A SUBWOOFER TO YOUR SYSTEM

1. Unplug the power to the MD 209 Hybrid Audio Receiver.
2. Using RCA cables, connect one end to the *Pre Out* output marked on the rear of the Receiver, the other corresponding end to your subwoofer.
3. Turn the subwoofer "ON".
4. Re-connect the power to the MD 209 Hybrid Audio Receiver and adjust the volume level to suit you.

Please note the volume of the subwoofer is controlled by the volume control on the receiver.

DIGITAL AUDIO CONVERTER (D.A.C) OPTION

If you chose the Digital Audio Converter (D.A.C.) option, additional inputs have been installed in the back of the MD 209 Hybrid Audio Receiver with corresponding "D1", "D2" & "USB" displays on the front of the unit. The D.A.C. is outfitted with two (2) coaxial inputs, and one (1) USB input.

1. Connect an external source to the USB or either coaxial inputs.
2. Adjust the input on the MD 209 Hybrid Audio Receiver by using the input button on the front of the unit or by using the RC4 remote as outlined on page 10.

RC4 REMOTE CONTROL

Unpacking the Remote:

- Remove the remote from its plastic bag, and install the 2 “AA” batteries provided
- Test the remote to make sure that all functions are operating correctly.

FUNCTIONS OF THE RC4 REMOTE

1. **POWER MAIN:** Power ON & OFF
2. **TUNER REMOTE ON/OFF:** This will power up the IR remote stage of the analog tuner section. If this is ON, the tuner can only be adjusted using the remote, **and not manually**. Similarly, if this feature is OFF, the tuner can only be adjusted manually (using the tuning dial on the faceplate), **and not with the remote**.
3. **TUNE UP/TUNE DOWN:** Changes the FM frequency when using the FM tuner as a source. Hold either the “**TUNE UP**” or “**TUNE DOWN**” button until you reach the desired station. The longer you hold the button the faster the frequency changes. To **FINE TUNE**, press either button shortly until your center tune meter is centered.
4. **PRESETS:** Your precision remote gives you the ability to store up to 20 preset stations. To program a preset station, first tune to the desired station and then push “**STORE**”. Then select the preset memory position you want to store this station in by selecting two digits. For Presets 1-9 you must select 01-09 and for 10+ directly enter the number. To recall these presets you must push “**PRESET**” and then enter the two-digit preset you wish to recall.
5. **VOLUME UP/VOLUME DOWN:** Increase or reduces the volume level of the preamplifier section of the MD 209 Hybrid Audio Receiver.
6. **INPUT:** Adjusts the selected source received by the preamplifier section of the receiver (i.e. Tuner, CD, Aux 1). Push “Input” and then the corresponding number key for the input you want. The TUNER input is input “9”, while the USB input is input “8”. Note: There is a 10 second delay when switching inputs.
7. **AUDIO MUTE:** Mutes the amplifier section of the receiver.

IMAGE OF RC4 REMOTE



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CONTROL FUNCTIONS

(Numbers correspond with product diagram on page 13)

1. **POWER** – Switches the power (AC) on and off to the receiver.
2. **INPUT SELECTOR** – Changes the input source sequentially.
3. **MUTE** – When on, inter-station noises are muted while tuning the **tuner**.
4. **STEREO** – Switches the tuner from Mono to Stereo.
5. **BW1 BANDWIDTH SETTING** – When **BW 1** is selected the tuner is in the “Wide” IF Bandwidth setting. This setting produces the best sound where adjacent channel interference is not a factor.
6. **BW2 BANDWIDTH SETTING** – When **BW 2** is selected the tuner is in the “Narrow Bandwidth” setting. This setting produces the best results where adjacent channel interference is a factor.
7. **SIGNAL STRENGTH/MULTIPATH METER** – When the LED above the button is lit, meter #11 will read the signal strength of the incoming signal, the higher the better. The signal meter is calibrated so that it will **never** reach 10, this is done to protect the meter mechanism. When the switch is set up to multi-path, meter #11 will indicate the presence of multi-path. The unit should be tuned so that this meter reads zero.
8. **TUNING KNOB** - Rotating this knob allows you to precisely tune to the frequency of your choice. Slight detuning of the tuner may help eliminate multi-path or some unusual atmospheric conditions that are affecting the sound of the tuner.
9. **VOLUME CONTROL** – The digitally controlled precision volume control allows you to vary the volume from 0-99. Normal operating range is 40-85. Note that it is not a linear volume control – therefore volume changes will vary more as you turn the control at higher levels than at lower levels. The volume control has been calibrated so that the volume level can not exceed the safe operating parameters of the system

DISPLAY FUNCTIONS

10. **FREQUENCY/VOLUME DISPLAY** – Shows the tuned frequency from 87.5 MHz thru to 108.5 MHz. This readout is controlled by the tuning control. Volume control is between 0 – 99 controlled by the volume knob.

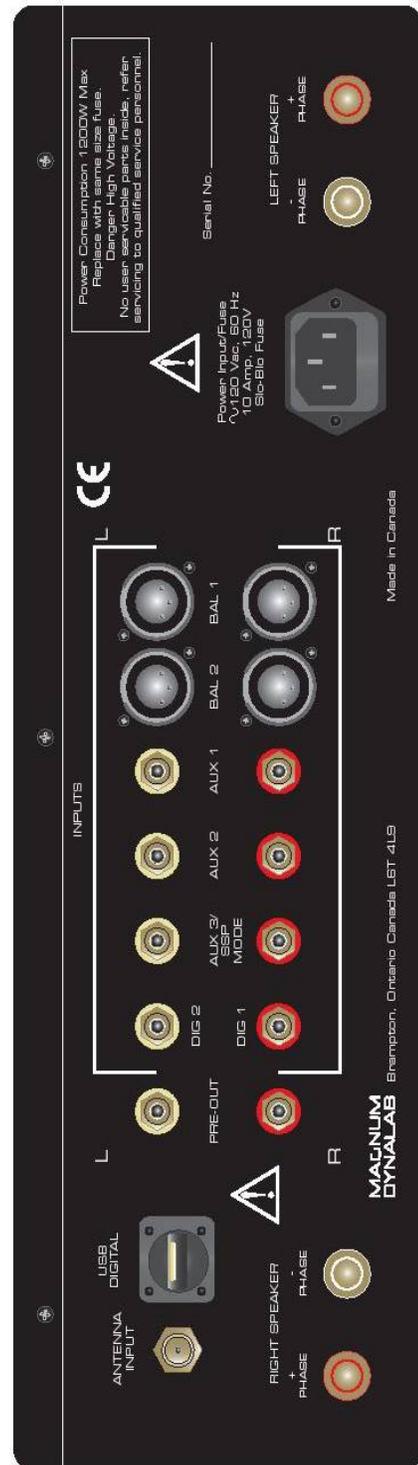
11. **SIGNAL STRENGTH/MULTI-PATH DISPLAY** – The readout of this meter is controlled by button 7, showcasing either incoming RF Signal Strength or the presence of Multi-path.

12. **CENTER TUNE METER** – Indicates the setting of the tuners front end, in normal situations the tuner should be tuned so that the needle is in the center.

DIAGRAM OF MD 209



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TROUBLE SHOOTING

PROBLEM	POSSIBLE CAUSE	POSSIBLE SOLUTION
No sound, meter lights are not on	Power cord disconnected Power off at source Fuse blown	Connect power cord Check AC source Check rear fuse panel
No sound, meter lights on	Interconnect not properly installed Preamp set to wrong source Power amp off	Check installation of interconnects Turn preamp to tuner Turn on amp
Signal strength is low	Antenna not connected Wrong type of antenna Station too far away Antenna pointed the wrong way	Check antenna hookup See page 15 Change your antenna Rotate the antenna to point at the station
Reception is poor	Antenna not connected Wrong type of antenna Cross talk from neighboring stations Multi-path is occurring	Check antenna hookup See page 15 Switch to BW 2 (switch # 6) Rotate your antenna, read Reception Techniques
Intermittent sound	Mute switch is "ON"	Turn mute switch "OFF"

RECEPTION TECHNIQUES

Antenna Cabling:

The lead-in cable from the antenna is often the weakest link in the FM system. Some time spent on selection and matching will yield dramatic results when it comes to noise reduction in weak signals.

A good grade of 75 ohm coaxial cable will provide very sufficient signal passage, along with effective shielding against interference. Without effective shielding your coaxial cable can in fact become an antenna in itself. There are different grades of 75 ohm cable, there is RG 59/U (Suitable for 50 feet and less) and RG 6. RG 6 is the better of the two and should be used in runs of 50 feet or more. The RG 6 has quad shielding and 50 % less losses than RG 59/U.

The key to maximizing the efficiency of the system is insuring that all connections are clean and tight, silicon grease on outdoor connections will insure good performance over a long period of time. If you splice either cable, make sure that exactly the same type of cable is used.

Types of Antennas:

Multi-element Yagi - This is a unidirectional antenna capable of pulling in very distant stations due to its high gain, the higher the gain the better. These types of antennas are very directional and should be used with a rotor to get the maximum benefit of the antenna. The directional feature helps eliminate multi-path problems by allowing only the signal from the direction that the antenna is facing to be picked up by the antenna and not the signals that come from a different direction.

Magnum Dynalab offers two Yagi antennae, the MD 6 FM or MD 10 FM

Vertical 1/2 Wave - This design offers ease of installation and operation. This type of antenna is omni-directional, which means that it picks up stations coming from all directions. No rotor is required to pull in stations from behind or the side. This design also gathers more of the FM signal from the air, offering superior fidelity over that of a standard bi-directional antenna. It also gives 2.5 dB gain to the signal strength over that of a standard dipole.

If multi-path is a reception problem try laying the antenna down in the horizontal plane rather than the vertical plane. This type of antenna can be used indoors or outdoors, but regardless of whether it is installed indoors or outdoors the higher that you can put it the better it will perform.

Magnum Dynalab offers the MD ST-2, an excellent vertical 1/2 wave antenna

Folded Di-Pole - This is the most common and simplest of all antennas, most people are familiar with the 79 cent piece of wire you received with most electronics gear

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(generally provided with a tuner or receiver). This piece of wire is bi-directional and the performance of it is affected by the angle that the signal hits the piece of wire. There are quite a number of di-pole antenna designs; they work well in areas of strong signal strength, such as local stations.

Magnum Dynalab offers the SR-100 as a good folded di-pole.

There are many styles of antennas but all of them are based on one of these types.

FM RECEPTION AIDS AND ACCESSORIES

We have already alluded to the importance of a good quality antenna which has been designed and built with the reception of the FM bandwidth exclusively.

Should you encounter a situation in which you require more gain to the FM signal or situations where you may need less gain AND better selectivity then the Magnum Dynalab 205 "Signal Sleuth" may be of benefit to you.

The 205 is a FM signal processor/amplifier designed specifically for FM. If you would like more information on this item or any other magnum dynalab product, please feel free to contact us at any time. Call us TOLL FREE 1-800-551-4130, email us at INFO@MAGNUMDYNALAB.COM or visit us at www.magnumdynalab.com.

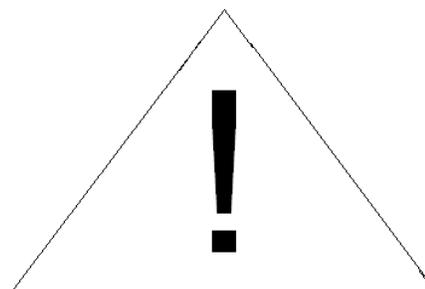
SPECIFICATIONS

Power	125 watts in 8 ohms, 250 watts into 4 ohms
Audio Frequency Response (+/- 0.1dB)	2Hz - 100KHz
Class of Operation	50 % of gain class A, 50 % of gain class AB
Harmonic Distortion	AB
Gain Control	< 0.05 % (2hz-100KHz)
Signal to Noise Ratio	Burr Brown
Total Harmonic Distortion	> -115dB
Gain	<0.1
Output Devices	28 dB
Input Sensitivity	Sanken (bi-polar)
Input Impedance	1.2 Volts at full power
Output Impedance	10k
Inputs	2k
Outputs	5 Analog (2 balanced XLR, 3 single ended including Surround Sound Processor input)
Dimensions (W.D.H.)	1 line level pre-out, 3 digital (2 Coaxial, 1 USB)
Weight	19" x 19.5" X 6.5"
Fuse Replacement	51 lbs
Tube Specifications	120V, 6.3amp slow blow OR 240V, 4 amp slow blow
Warranty	2 x 6922
RF Specifications	2 years
Usable Sensitivity	
50 dB Quieting (mono)	(mono) 0.7 u V 9.0 dBf
50 dB Quieting (stereo)	
Capture Ratio	2.0 u V 9.9 dBf
Image Rejection	2.3 u V 20.0 dBf
Alternate Channel (wide)	1.5 dB
Alternate Channel (narrow)	125.0 dB
Adjacent Channel (wide)	>46.0 dB
Adjacent Channel (narrow)	>80.0 dB
THD (mono)	3.0 dB
THD (stereo)	30.0 dB
Stereo Separation	0.10%
AM Suppression	0.10%
SCA Rejection	50.0 dB
IF Rejection	70.0 dB
19 KHz & 38 KHz Component Rejection	80.0 dB
	80.0 dB
	75.0 dB

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IMPORTANT SAFETY INSTRUCTIONS

1. KEEP THESE INSTRUCTIONS
2. HEED ALL WARNINGS
3. FOLLOW ALL INSTRUCTIONS
4. DO NOT USE THIS APPARATUS IN WATER
5. CLEAN ONLY WITH DRY CLOTH
6. DO NOT BLOCK ANY VENTILATION OPENINGS, INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
7. DO NOT INSTALL NEAR ANY HEAT SOURCES SUCH AS RADIATORS, HEAT REGISTERS, STOVES, OR OTHER APPARATUS (INCLUDING AMPLIFIERS) THAT PRODUCE HEAT.
8. DO NOT DEFEAT THE SAFETY PURPOSE OF THE GROUNDING TYPE PLUG. THE GROUNDING PLUG HAS TWO BLADES AND A THIRD GROUNDING PRONG. THE THIRD PRONG IS PROVIDED FOR YOUR SAFETY. IF THE PROVIDED PLUG DOES NOT FIT INTO YOUR OUTLET, CONSULT AN ELECTRICIAN FOR REPLACEMENT OF THE OBSOLETE OUTLET.
9. PROTECT THE POWER CORD FROM BEING WALKED ON OR PINCHED PARTICULARLY AT PLUGS, CONVENIENCE RECEPTACLES, AND THE POINT WHERE THEY EXIT FROM THE APPARATUS.
10. ONLY USE ATTACHMENTS/ACCESSORIES SPECIFIED BY THE MANUFACTURER.
11. UNPLUG THIS APPARATUS DURING LIGHTNING STORMS OR WHEN UNUSED FOR LONG PERIODS OF TIME.
12. REFER ALL SERVICING TO QUALIFIED PERSONNEL. SERVICING IS REQUIRED WHEN THE APPARATUS HAS BEEN DAMAGED IN ANY WAY, SUCH AS THE POWER SUPPLY CORD OR PLUG IS DAMAGED, LIQUID HAS BEEN SPILLED OR OBJECTS HAVE FALLEN INTO THE APPARATUS, THE APPARATUS HAS BEEN EXPOSED TO RAIN OR MOISTURE, DOES NOT OPERATE NORMALLY, OR HAS BEEN DROPPED.
13. THE EQUIPMENT REQUIRES A GROUNDED POWER OUTLET TO OPERATE SAFELY.
14. THE POWER SUPPLY CORD IS THE MAIN DISCONNECT AND SHALL BE READILY OPERABLE.



“WARNING” TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

LIMITED WARRANTY

Register your product at www.magnumdynamalab.com

Magnum Dynalab Ltd. herein referred to as the "manufacturer" guarantees this product to be free of defect in both material and workmanship and agrees to remedy any such defect or replace any defective component at no charge for a period of two years from date of sale to the first end user. This warranty is void if the product has been found to be subjected to misuse, abuse, lightning strike, unauthorized service, damaged in transit or has been altered or repaired in such a way as to detract from its performance, reliability or its safe operation.

Should such defect be discovered and it falls within the terms of this guarantee, the manufacturer will correct the defect in workmanship and/or replace any defective component with a new one of same or better capability and value. This warranty does not apply to the cabinet or appearance items such as the faceplate, control knobs or meter lenses nor does it cover any expenses in shipping the unit to the appropriate service depot.

The foregoing is in lieu of any other warranties expressed, implied or statutory and the manufacturer neither assumes nor authorizes any person to assume for it any other obligation or liability in the connection with the sale of this product. This warranty is not transferable except by written authorization from the manufacturer.

In order to qualify under the terms of the above warranty, all items must be returned to the appropriate factory service depot with all shipping charges prepaid in lieu of having previously registered the purchase of the unit by completing and returning the attached Registration Card, the unit must be accompanied by proof of purchase from an authorized Magnum Dynalab Ltd. dealer.

*** All tubes are covered for 12 months.**

YOUR LOCATION	RETURN SHIPPING ADDRESS
Within the USA	Magnum Dynalab c/o Trans American 2775 Broadway Buffalo, NY 14227-1043 1-800-551-4130
Within Canada	Magnum Dynalab Ltd. 8 Strathearn Avenue, Unit # 9 Brampton, ON, Canada L6T 4L9 PHONE: 1-800-551-4130
Other Countries	Contact selling dealer

TO PREVENT FIRE SHOCK OR HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE

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COVER OR FACEPLATE, NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING
TO QUALIFIED SERVICE PERSONNEL.