

Acesonic

Acesonic AM-145 80-Watts Karaoke Mixing Amplifier

USER'S MANUAL



NOTE:

To ensure this component will work safely and to its fullest potential, please read this user's manual carefully before operation and keep for future reference.

www.acesonic.com

Warnings, Cautions and Others

Mises en garde, précautions et indications diverses



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



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

CAUTION

To reduce the risk of electrical shocks, fire, etc:

1. Do not remove screws, screws, covers or cabinet.
2. Do not expose this appliance to rain or moisture.

FCC INFORMATION (U.S.A.)

1. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
Reorient or relocate the receiving antenna.
Increase the separation between the equipment and receiver.
Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help.
2. **IMPORTANT:** When connecting this product to accessories and/or another product use only high quality shielded cables. Cable(s) supplied with this product **MUST** be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use product in the U. S. A.

For Canada/Pour le Canada

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, AND FULLY INSERT.

ATTENTION: POUR EVITER LES CHOCS ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

For Canada/Pour le Canada

THIS DIGITAL APPARATUS DOES NOT EXCEED THE CLASS B LIMITS FOR RADIO NOISE EMISSIONS FORM DIGITAL APPARATUS AS SET OUT IN THE INTERFERENCE-CAUSING EQUIPMENT STANDARD ENTITLED DIGITAL APPARATUS, ICES-003 OF THE DEPARTMENT OF COMMUNICATIONS. CET APPAREIL NUMERIQUE RESPECTE LES LIMITES DE BRUITS RADIO ELECTRIQUES APPLICABLES AUX APPAREILS NUMERIQUES DE CLASSE B PRESCRITES DANS LA NORMESUR LE MATERIEL BROUILLEUR: APPAREILS NUMERIQUES , NMB-003 EDICTEE PAR LE MINISTRE DES COMMUNICATIONS.

Caution

Disconnect the electrical plug to shut off power completely. The POWER on the unit is not off from the electrical plug when the POWER button on the front panel is not pressed in.

Important Safety instructions

1. **Read** These Instructions.
2. **Keep** These Instructions.
3. **Heed** All Warnings.
4. **Follow** All Instructions.
5. **Do not** use this product near water.
6. **Clean** only with a dry cloth.
7. **Do not** block any ventilation openings.
8. **Do not** install near any heat sources such as radiators, heat register, stoves, or other apparatus (including amplifiers) that produce heat.
9. **Do not** defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. **Protect** the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. **Only** use attachments and accessories specified by the manufacturer.
12. **Use** only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart.
13. **Unplug** this apparatus during lightning storms or if unused for a long period of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when 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
15. **This** product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.



16. Protective Attachment Plug

The product is equipped with an attachment plug having overload protection. This is a safety feature. See Instruction Manual for replacement or resetting of the protective device. If replacement of the plug is required, be sure the service technician has used a replacement plug specified by the manufacturer that has the same overload protection as the original plug.

17. Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

18. Overloading

Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

19. Object and Liquid Entry

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

20. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

21. Safety Check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

22. Wall or Ceiling Mounting

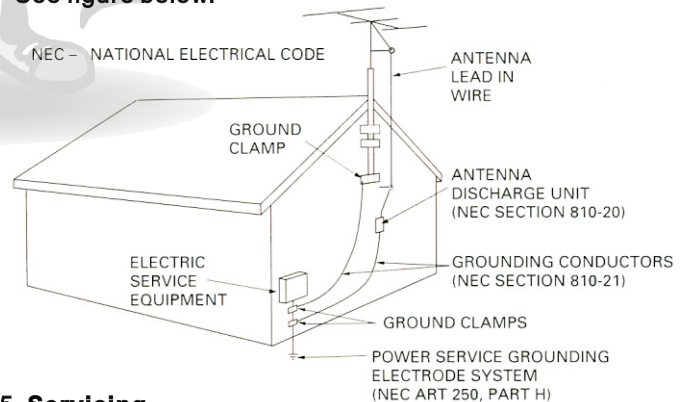
The product should be mounted to a wall or ceiling only as recommended by the manufacturer. Any mounting of the product should follow the manufacturer instructions, and should use a mounting accessory recommended by the manufacturer.

23. Wet location marking

Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

24. Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See figure below.



25. Servicing

If your product is not operating correctly or exhibits a marked change in performance and you are unable to restore normal operation by following the detailed procedure in its operating instructions, do not attempt to service it yourself as operating instructions, do not attempt to service it yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personal.

Acesonic AM-145

Thank you for purchasing Acesonic's AM-145. Acesonic takes pride in providing our customers with only the most advanced and highest quality karaoke products on the market. Please read through this USER'S MANUAL before operation to ensure proper usage, and keep for future reference. Enjoy!

Table of Contents

Warnings and Caution	2
Safety Instructions	3
Table of Contents	4
Included Accessories	4
Front Panel Functions and Operation	5
Rear Panel Functions and Operation	6
Remote Control Functions	7
Connections Diagrams	8
Troubleshooting	9
Specifications/Manufacturer information	10
Warranty Information	11,12

Included Accessories

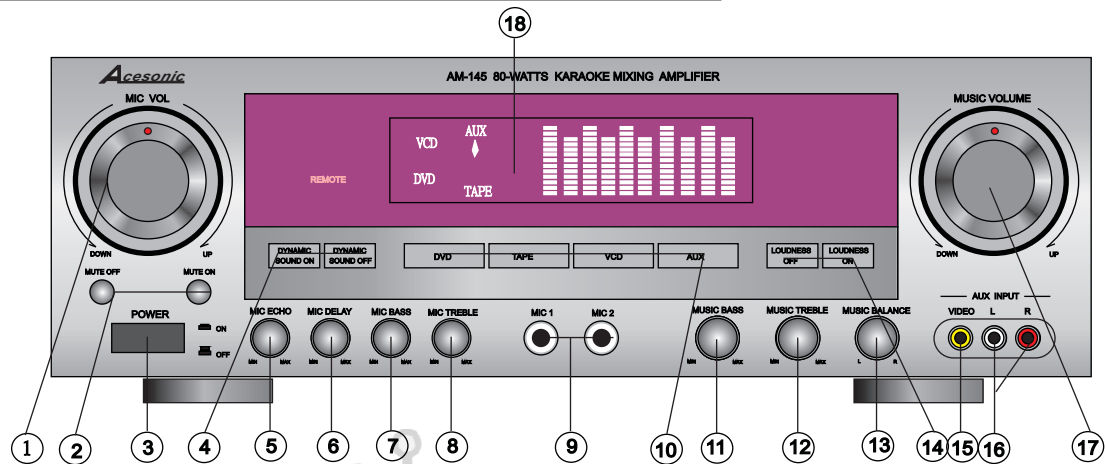
Please check to make sure all accessories are included. If anything is missing, please contact your dealer immediately.

- 1 AM-145 Mixing Amplifier
- 1 Remote Control
- 1 AC Power Adapter Cord
- User's Manual/Warranty Card

About this Manual

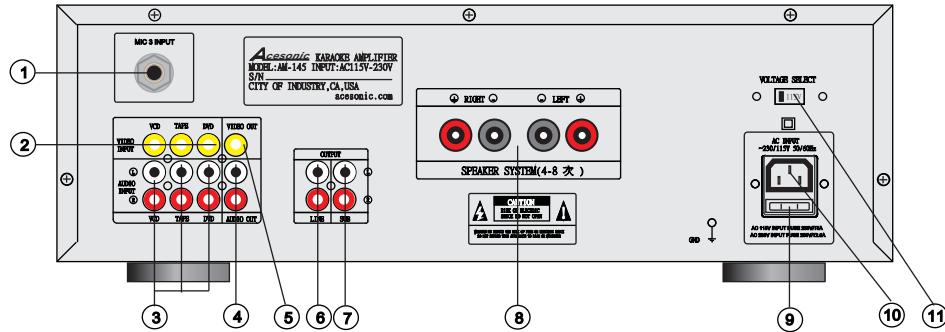
For easy reference, names of all functions and/or components on the hardware and accessories are denoted by upper-case letters.

Front Panel Function and Operation



- 1. MICROPHONE MASTER VOL control** - Adjusts the overall volume output for all three (two front & one back) microphone channels, collectively. Turn counter-clockwise to decrease volume and clock-wise to increase volume.
- 2. MUTE button** - Turns the music & vocal off
- 3. POWER ON/OFF button** - Turns the AM-825 on or off.
- 4. DYNAMIC SOUND button** - Toggles sound enhancement on or off. Turning **DYNAMIC SOUND** helps to aesthetically enhance the output signal. Turning it OFF reverts the output signal back to its original characteristics.
- 5. MICROPHONE ECHO control** - Adjusts the intensity (loudness of ECHO) of effect for all microphone channels. Turn counter-clockwise to decrease intensity and clockwise to increase intensity.
- 6. MICROPHONE DELAY control** - Adjusts the ECHO delay time (time of ECHO) of the echo effect for the sound channels. Turn counter-clockwise to decrease decay time and clockwise to increase decay time.
- 7. MICROPHONE BASS control** - Adjusts the low frequency setting for microphone inputs. Turn counter-clockwise to decrease and clockwise to increase.
- 8. MICROPHONE TREBLE control** - Adjusts the high frequency setting for microphone inputs. Turn counter-clockwise to decrease and clockwise to increase.
- 9. MICROPHONE INPUT jacks (MIC 1 & MIC 2)** - 1/4 inch inputs for microphones. There is an additional microphone input on the rear panel.
- 10. INPUT SELECTION button** - Sets the input source selection to manual mode. You can switch input from DVD, TAPE, VCD, to AUX.
- 11. MUSIC BASS control** - Adjusts the low frequency (Bass) setting for music. Turn counter-clockwise to decrease and clockwise to increase.
- 12. MUSIC TREBLE control** - Adjusts the high frequency (Treble) setting for music. Turn counter-clockwise to decrease and clockwise to increase.
- 13. MUSIC BALANCE control** - Pans the music output to the stereo left and right channels. Turn counter-clockwise to gradually pan to the stereo left channel. Turn clockwise to gradually pan to the stereo right channel. Center the knob for equal output from both stereo left and right channels.
- 14. MUSIC LOUDNESS button** - Select between loudness and normal music sound.
- 15. VIDEO INPUT jacks (AUX) - VIDEO** - VIDEO RCA input.
- 16. AUDIO/VIDEO INPUT jacks (AUX) - R** - AUDIO RIGHT RCA input. **L** - AUDIO LEFT RCA input.
- 17. MUSIC MASTER VOL control** - Adjusts the volume output for the selected music channels. Turn counter-clockwise to decrease volume and clock-wise to increase volume.
- 18. INFORMATION DISPLAY WINDOW** - To show the information of input selection and music frequency level.

Rear Panel Function and Operation

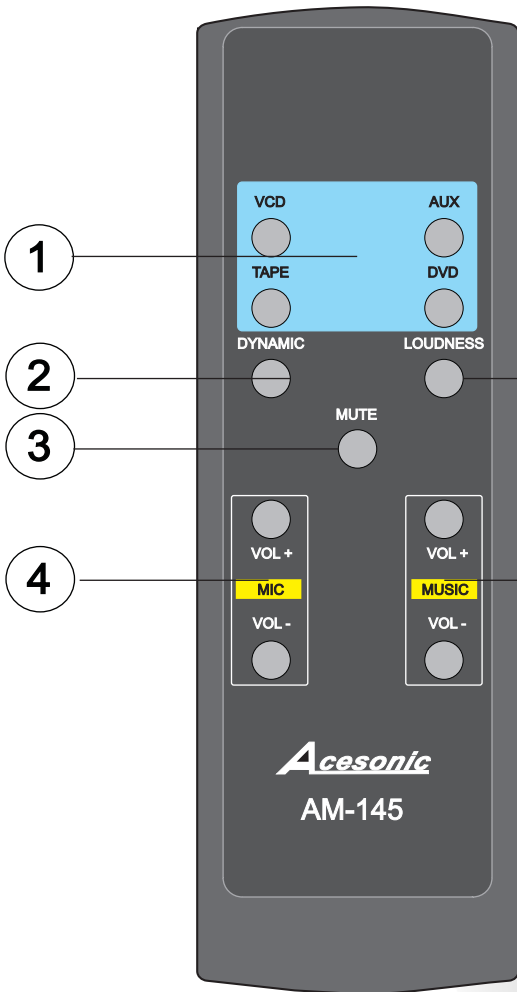


1. **MIC #3 INPUT jack** - 1/4 inch inputs for microphones. **AUDIO/VIDEO INPUT jacks**
2. **VIDEO INPUT jacks (VCD, TAPE and DVD)** - VIDEO RCA inputs for these three source inputs.
3. **AUDIO INPUT jacks (VCD, TAPE and DVD)** - Each column consists of a complete set of AUDIO LEFT & AUDIO RIGHT RCA inputs.
R - AUDIO RIGHT RCA input. Connect to the audio right output from an external component.
L - AUDIO LEFT RCA input. Connect to the audio left output from an external component.
4. **AUDIO OUTPUT jacks-**
R - AUDIO RIGHT RCA output. Connect to the audio right input on an external component.
L - AUDIO LEFT RCA output. Connect to the audio left input on an external component.
5. **VIDEO OUTPUT jacks**-VIDEO RCA output. Connect to the video input on an external component like TV or monitor.
6. **AUDIO LINE OUTPUT jacks**- AUDIO RCA outputs provide line audio signal to other external component like another amplifier.
7. **SUB WOOFER LINE OUTPUT jacks**- AUDIO RCA outputs provide line audio signal to other external sub woofer component.
8. **SPEAKER SYSTEM** - One set of banana connector ports provide audio output to stereo external speakers. Banana connector ports designed to be used with bare speaker wire as well as banana connectors. The LEFT and RIGHT outputs each consist of a positive (+, red) and negative (-, black) signal that correspond with the inputs on each speaker. (Please see connection diagram on page 8 for proper configuration)
9. **POWER FUSE**-Replaceable 250V/T10A fuse to protect the machine in 110V using condition.
10. **AC inlet** - Male inlet for power cable.
11. **AC 115/230V SELECT** - Voltage selection switch. Push the switch right for 115V, and left for 230V. (Note: different regions of the world use different voltage strengths. Please check to make sure the correct voltage is selected for your area.)

16. **COMPONENT VIDEO OUTPUT jacks** - RED, GREEN, BLUE component video RCA outputs. Connect to the red, green and blue component video inputs, respectively, on an external component.

17. **COMPONENT VIDEO INPUT jacks (from BGM and DVD input)** - RED, GREEN, BLUE component video RCA inputs. Connect to the red, green and blue component video outputs, respectively, from an external component.

Remote Control:



1. Manual Input Source Selection:

1. VCD button - Selects the external source connected to the VCD INPUT.

2. TAPE button - Selects the external source connected to the TAPE INPUT.

3. AUX button - Selects the external source connected to the AUX INPUT.

4. DVD button - Selects the external source connected to the DVD INPUT.

2. DYNAMIC ON/OFF buttons - Turns sound (including music and microphone vocal) enhancement on or off.

3. DYNAMIC ON/OFF buttons - Turns sound on or off.

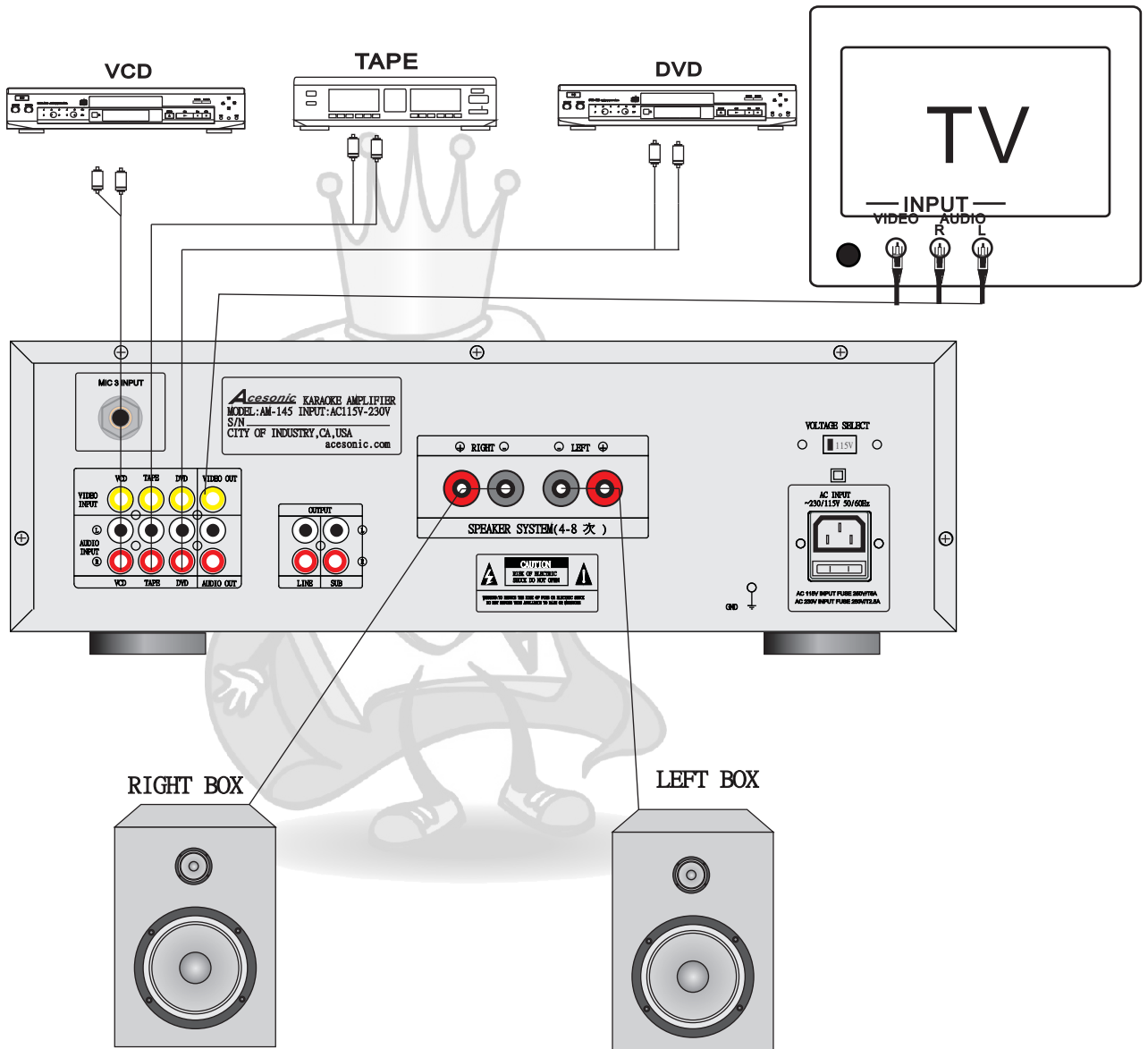
4. MIC VOL +/- buttons - Increase or decrease the microphone master output volume.

5. MUSIC LOUDNESS ON/OFF buttons - Turns music enhancement on or off.

6. MUSIC VOL +/- buttons - Increase or decrease the music output volume.

Player Connections

Make sure all power is disconnected from each component before connecting. Plug all cables and cords securely to prevent unwanted noise.



Troubleshooting

If you are having problems operating the AM-145, or suspect something is wrong with the unit, please check the troubleshoot list below to see if the issue is a result of incorrect operation rather than equipment malfunction. If you are still unable to resolve the problem, please contact our Acesonic tech. service center at 626-820-0670.

Symptom	Possible Causes	Solution
Will not turn on	AC power adapter cord is incorrectly attached or not plugged into outlet	Check both the AC adapter connection as well as the AC outlet connection. Check the fuse below the AC adapter and see if it is broken.
No audio can be heard, audio signal meter shows signal	Incorrect input source selected	Check to make sure the correct corresponding button is pressed on the input selector in relation to your audio source.
	MUSIC VOL control is down	Check to see if MUSIC VOL control is all the way down. If so, turn the knob slowly clockwise.
	Poor or incorrect output connection to speakers or other external units, or bad/defective cables, wires or connectors	Double check all output connections to speakers or other units. Try using another set of cables/cords. Make sure to turn POWER OFF before reconnecting cables.
No audio can be heard, audio signal meter DOES NOT show signal	Poor or incorrect input connection from audio source unit, or bad/defective cables, wires or connectors	Double check all input connections from audio source units. Try using another set of cables/cords. Make sure to turn POWER OFF before reconnecting cables.
No microphone signal can be heard	Microphone controls are turned down	Check MIC MASTER VOL and all MIC VOL controls to see if they are turned down. If so, turn the knob slowly clockwise.
	Poor or incorrect input connection from microphone, or bad/defective cables, wires or connectors.	Double check all microphone connections. Try using another cable/cord. Make sure to turn MIC MASTER VOL down before reconnecting cables.
Unpleasant howling and screeching heard from speakers	Microphone feedback	Place microphones further away from speakers. Face microphones away from speakers.
Remote control not functioning	Batteries are exhausted or positioned incorrectly	Replace with fresh batteries or double check battery positioning.
	Remote is out of range or there is an obstruction	Move closer to the AM-825 or make sure no objects are obstructing your view of the unit.

Specifications

AM-145 Specifications

Maximum Output	40W + 40W/ 8 Ohm Max
RMS (continuous) Output	60W + 60 W/ 4 Ohm RMS
Microphone Input Sensitivity	<20mV
Music Input Sensitivity	300mV
Microphone Frequency Response	20hz – 20Khz/ 3db
Music Frequency Response	20hz – 20Khz/ 3db
Microphone EQ characteristics	Treble: +/- 5dB (10Khz), Bass: +/- 5dB (100hz)
Music EQ characteristics	Treble: +/- 5dB (10Khz), Bass: +/- 5dB (100hz)
Speaker Wattage Impedance	4 Ohm – 8 Ohm
Supply Voltage	AC 110V - 120V or AC 220V - 240V (switchable)

1 Year Manufacturer Warranty
Lifetime Technical Support
Design in U.S.A

Technical Support: (626)820-0670
Address: 161 South 8th Avenue
City Of Industry,
CA 91746-3208, USA
Website: www.acesonic.com



ACESONIC LIMITED WARRANTY WARRANTY PROCEDURE

TO VALIDATE YOUR WARRANTY: Fill out the attached warranty card, be sure to include the model and serial number of the unit since this is how warranties are tracked. If your Acesonic product was purchased in the U.S., mail the completed card directly to Acesonic within 10 days from the date of purchase. If you purchased the product outside the U.S. you must file your warranty registration card with the Distributor in that country. It is advised that you keep your bill of sale as proof of purchase, should any difficulties arise concerning the registration of the warranty card.

WARRANTY REGISTRATION is made and tracked by MODEL AND SERIAL NUMBER ONLY, not by the purchaser's or owner name. Therefore any warranty correspondence or inquiries MUST include the model and serial number of the product in question. Be sure to fill in the model and serial number in the space provided below and keep this portion of the warranty card in a safe place for future reference.

WARRANTY SERVICE MUST BE PERFORMED ONLY BY AN AUTHORIZED ACESONIC SERVICE FACILITY LOCATED IN THE COUNTRY WHERE THE UNIT WAS PURCHASED, OR AT THE ACESONIC HEADQUARTER IN THE U.S. It is recommended that advance notice be given to the repair facility to avoid needless shipment in case the problem can be solved over the phone. UNAUTHORIZED SERVICE PERFORMED WILL VOID ANY EXISTING FACTORY WARRANTY ON THAT PRODUCT.

FACTORY SERVICE: if you wish your product to be serviced at the factory, it must be shipped FULLY INSURED, IN THE ORIGINAL PACKING OR EQUIVALENT. This warranty will NOT cover repairs on products damaged through improper packaging. If possible, avoid sending products through the mail. Be sure to include in the package:

1. Complete return shipping address (P.O. Box numbers are NOT acceptable).
2. A detailed description of any problems experienced, including the make and model numbers of any other equipment in the system.

Repaired products will be returned freight C.O.D. unless sufficient return shipment funds are included with the unit.

Products sent to the factory from outside the U.S. MUST include return freight funds, and the sender is fully responsible for all, customs procedures, duties, tariffs and deposits.

RECORD THE MODEL AND SERIAL NUMBER BELOW AND RETAIN THIS PORTION OF THE WARRANTY CARD FOR YOUR FILES:

MODEL ACESONIC AM-145 SERIAL NUMBER _____

DATE OF PURCHASE _____

Detach this portion and mail it to the factory

MODEL ACESONIC AM-145 SERIAL NO. _____ PURCHASE DATE _____

NAME: _____ ADDRESS: _____

CITY _____ STATE _____ ZIP _____

E-MAIL ADDRESS _____ TELEPHONE _____

The following information is appreciated, but not required:

Dealer's name and address: _____

What other products and/or product changes would you like to see Manufactured?

Any other comments:

LIMITED DOMESTIC WARRANTY

ACESONIC WARRANTS ALL PRODUCTS PURCHASED IN THE U.S. AGAINST DEFECTS IN MATERIAL OR WORKMANSHIP FOR A PERIOD OF ONE(1) YEAR FROM THE INITIAL DATE OF RETAIL PURCHASE FROM AN AUTHORIZED ACESONIC DEALER, OR, ONE(1) YEAR FROM THE DATE OF MANUFACTURE IF PROOF OF PURCHASE DATE IS NOT AVAILABLE. This limited warranty extends to all purchasers or owner of the product during the warranty period beginning with the original retail purchase. Acesonic does not, however, warrant its products against any and all defects : 1) arising out of material or workmanship not provided or furnished by Acesonic, or 2) resulting from abnormal use of the product or use in violation of instruction, or 3) in products repaired or serviced by other than authorized Acesonic repair facilities, or 4) in products with removed or defaced serial numbers, or 5) in components or parts or products expressly warranted by another manufacturer. Acesonic agrees to supply all parts and labor to repair or replace defects covered by this limited warranty with parts or products of original or improved design, at its option in each respect, if the defective product is shipped prior to the end of warranty period to any authorized warranty repair facility in U.S., or to the Acesonic in the original packaging or a replacement supplied by Acesonic, with all transportation costs and full insurance paid each way by the purchaser or owner.

LIMITED WARRANTY OUTSIDE THE U.S.

ACESONIC PRODUCTS ARE WARRANTED ONLY IN THE COUNTRY WHERE PURCHASED, THROUGH THE AUTHORIZED ACESONIC DISTRIBUTOR IN THAT COUNTRY, AGAINST DEFECTS IN MATERIAL OR WORKMANSHIP. THE SPECIFIC PERIOD OF THIS LIMITED WARRANTY SHALL BE THAT WHICH IS DESCRIBED TO THE ORIGINAL RETAIL PURCHASE BY THE AUTHORIZED DEALER OR DISTRIBUTOR AT THE TIME OF PURCHASE.

Acesonic does not, however, warrant its products against any and all defects: 1) arising out of material or workmanship not provided or furnished by Acesonic, or 2) resulting from abnormal use of the product or use in violation of instructions, or 3) in products repaired or serviced by other than authorized Acesonic repair facilities, or 4) in products with removed or defaced serial numbers, or 5) in components or parts or products expressly warranted by another manufacturer. Acesonic agrees through the applicable authorized distributor, to repair or replace defects covered by this limited warranty with parts or product of original or improved design, at its option in each respect, if the defective product is shipped prior to the end of the warranty period to designated authorized Acesonic warranty repair facility in the country where purchased, or to Acesonic Headquarters in the U.S., in the original packaging or a replacement supplied by Acesonic, with all transportation costs and full insurance paid each way by the purchaser or owner.

ALL REMEDIES AND THE MEASURE OF DAMAGES ARE LIMITED TO THE ABOVE SERVICES. IT IS POSSIBLE THAT ECONOMIC LOSS OR INJURY TO PERSON OR PROPERTY MAY RESULT FROM THE OF THE PRODUCT; HOWEVER, EVEN IF ACESONIC HAS BEEN ADVISED OF THIS POSSIBILITY, THIS LIMITED WARRANTY DOES NOT COVER ANY SUCH CONSEQUENTIAL OR INCIDENTAL DAMAGES. SOME STATES OR COUNTRIES DO NOT ALLOW THE LIMITATIONS OR EXCLUSIONS OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

ANY AND ALL WARRANTIES, EXPRESSED OR IMPLIED, ARISING BY LAW, COURSE OF DEALING, COURSE OF PERFORMANCE, USAGE OF TRADE, OR OTHERWISE, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO A PERIOD OF ONE(1) YEAR FROM EITHER THE DATE OF ORIGINAL RETAIL PURCHASE OR, IN THE EVENT NO PROOF OF PURCHASE DATE IS AVAILABLE, THE DATE OF MANUFACTURE, SOME STATES OR COUNTRIES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

THE LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE, COUNTRY TO COUNTRY.

Please Mail To:

**Acesonic Corp.
161 S. 8th Ave
City of Industry CA, 91746
USA**