

AMERICAN AUDIO

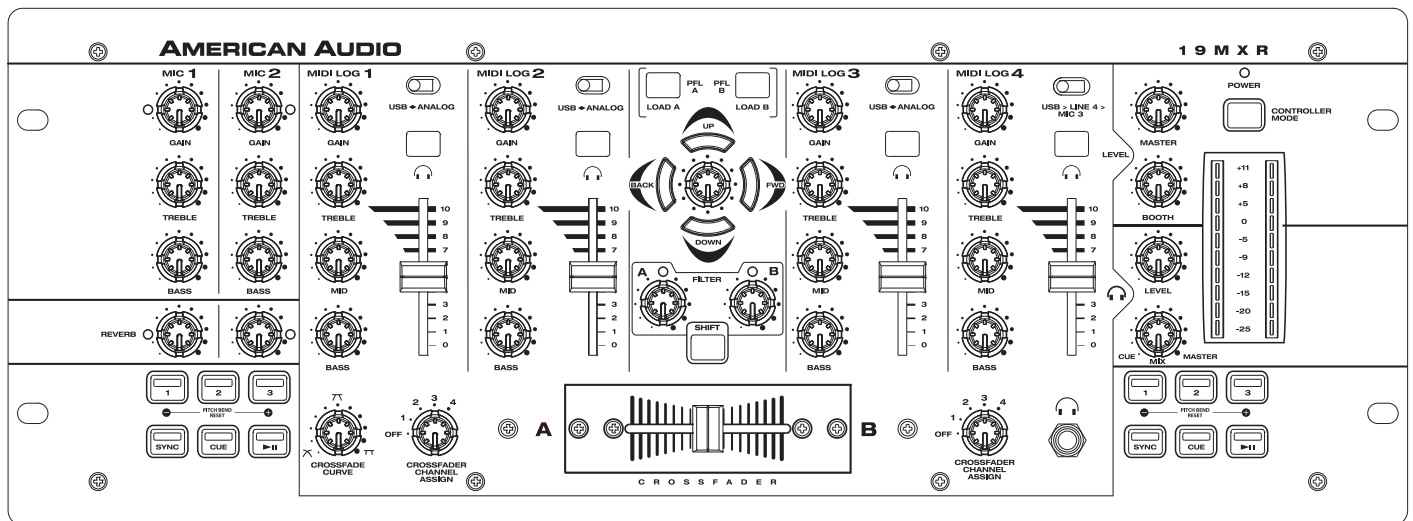
19MXR

MIDI
COMPLIANT

USB

inno
FADER
COMPATIBLE

BALANCED
XLR OUTPUTS



User Guide and Reference Manual

AMERICAN AUDIO
6122 S. Eastern Ave.
Los Angeles, CA. 90040
www.AmericanAudio.us

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19MXR

MAIN FEATURES

- Feather Fader Plus
- 2 Phono, 4 Line, & 3 Mic Inputs
- Balanced XLR Outputs
- High quality Feather Fader™ for smooth, clean cross fades (replaceable)
- Bass, Mid, and Treble for each channel
- Gain, Bass, and Treble for Mics 1 & 2
- Microphone Reverb Control
- USB Connection
- High level headphone output
- Cue mixing
- Turntable ground connectors located on the rear panel
- Adjustable Crossfader Curve
- On/Off switch for channel assign
- Gain control for each channel
- 100V~240V 50/60Hz (Universal)
- Master Level Indicator
- Balanced XLR Output
- Built-In DSP D-Core™ Sound Card
- Controller Mode: USB Output Streams are routed through master and headphone outputs

WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN, LIQUIDS, OR MOISTURE

CAUTION: DO NOT ATTEMPT TO REMOVE OR BREAK OFF THE GROUND PRONG FROM THE ELECTRICAL CORD. THIS PRONG IS USED TO REDUCE THE RISK OF ELECTRICAL SHOCK AND FIRE IN CASE OF AN INTERNAL SHORT.

ATTENTION: POUR PREVENIR LES CHOCS ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR, UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.



NOTE: This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electrical appliances such as radios and televisions, use shielded cables and connectors for connections.

The serial and model number for this unit is located on the rear panel. Please write down the numbers here and retain for future reference.

Model No. _____

Serial No. _____

Purchase Notes:

Date of Purchase _____

Dealer Name _____

Dealer Address _____

Dealer Phone _____

ELECTRICAL PRECAUTIONS



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.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER (OR BACK). THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER SERVICE TO YOUR AUTHORIZED AMERICAN AUDIO® SERVICE TECHNICIAN.



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.

IMPORTANT SAFETY INSTRUCTIONS

READ INSTRUCTIONS — All the safety and operating instructions should be read before the product is operated.

RETAIN INSTRUCTIONS — The safety and operating instructions should be retained for future reference.

HEED WARNINGS — All warnings on the product and in the operating instructions should be adhered to.

FOLLOW INSTRUCTIONS — All operating and use instructions should be followed.

CLEANING — The product should be cleaned only with a polishing cloth or a soft dry cloth. Never clean with furniture wax, benzene, insecticides or other volatile liquids since they may corrode the cabinet.

ATTACHMENTS — Do not use attachments not recommended by the product manufacturer as they may cause hazards.

WATER AND MOISTURE — Do not use this product near water — for example, near a bathtub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.

ACCESSORIES — Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

CART — A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.



VENTILATION — Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

POWER SOURCES — 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.

LOCATION — The appliance should be installed in a stable location.

NONUSE PERIODS — The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

GROUNDING OR POLARIZATION

- If this product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other), it will fit into the outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

- If this product is equipped with a three-wire grounding type plug, a plug having a third (grounding) pin, it will only fit into a grounding type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding type plug.

POWER-CORD PROTECTION - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

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 A.

LIGHTNING — For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

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.

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

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.

SERVICING — Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

DAMAGE REQUIRING SERVICE - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- If the product has been dropped or damaged in any way.
- When the product exhibits a distinct change in performance — this indicates a need for service.

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.

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.

WALL OR CEILING MOUNTING — The product should not be mounted to a wall or ceiling.

HEAT — The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

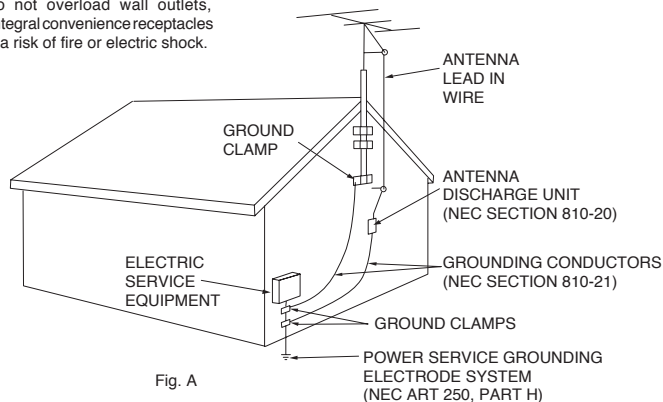


Fig. A

NEC — NATIONAL ELECTRICAL CODE

1. For adult use only - Keep out of the reach of children.
2. Water and Moisture - The mixer should not be used near water - for example, near a bath tub, kitchen sink, laundry tub, in a wet basement or near a swimming pool, etc. Do not spill water or other liquids in to or on to your mixer.
3. Ventilation - The mixer should be situated so that its location or position does not interfere with its proper ventilation. For example, the mixer should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
4. Heat - The mixer should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
5. Power Sources - The mixer should be connected to a power supply (wall outlet) only of the type described in the operating instructions or as marked on the mixer.
6. Servicing -The user should not attempt to service the mixer beyond that described in the operating instructions. There are no user serviceable parts inside. All other servicing should be referred to qualified service personnel. The mixer should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged.
 - B. Objects have fallen, or liquid has been spilled into the mixer.
 - C. The mixer has been exposed to rain or water.
 - D. The mixer does not appear to operate normally or exhibits a marked change in performance.
7. Never disassemble or modify your unit in any way, doing so will void your manufacturer's warranty.
8. Never plug this mixer in to a dimmer pack.
9. Do not let insecticides, benzene, or thinner come in contact with the surface of the unit.
10. This unit is intended for indoor use only, use of this product outdoors voids all warranties.
11. Always mount this unit in safe and stable manner.
12. Disconnect from main power before making any type of connection.
13. Cleaning - The mixer should be cleaned only as recommended by the manufacturer. Use a soft cloth to wipe down the outside of the unit. For stubborn stains moisten a soft cloth with glass cleaner or other mild detergent to wipe away any stains. Use a soft cloth to wipe any residual cleaner. Never use volatile cleaners such as benzene, solvent, or thinner to clean your unit, these cleaners will damage the unit's surface.
14. Handle the power supply cord carefully. Do not damage or deform; it may cause electric shock or malfunction when used. Hold plug attachment when removing from wall outlet. Do not pull on the cord.
15. To avoid electric shock, do not open the top cover when the unit is plugged in. If problems occur with the unit, call American Audio® customer support.
16. Do not place metal objects or spill any liquids inside or on the mixer. Electric shock or malfunction may occur.
17. Power Cord Protection - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the mixer. Route your power cord out of the way of foot traffic.
18. Always have the front gain controls set to their lowest level during initial power-up to prevent speaker damage.

Introductions: Congratulations and thank you for purchasing the American Audio® 19MXR mixer. This mixer is a representation of American Audio's continuing commitment to produce the best and highest quality audio products possible at an affordable price. Please read and understand this manual completely before attempting to operate your new mixer. Please carefully read and understand the instructions in this manual thoroughly before attempting to operate this unit. These instructions contain important safety information regarding the use and maintenance of this unit. Take special care to follow all warning symbols and labels both on the unit and printed in this manual. Also, Please keep this manual with the unit, for future reference.

Customer Support:

American Audio® provides a toll free customer support line, to provide set up help and answer any question should you encounter problems during your initial set up or operation. You may also visit us on the web at www.americaaudio.us for any comments or suggestions. Service Hours are Monday through Friday 8:00 a.m. to 4:30 p.m. Pacific Standard Time.

Voice: (800) 322-6337
Fax: (323) 582-2941
E-mail: support@americandj.com

To purchase parts online visit <http://parts.americandj.com>

Caution! There are no user serviceable parts inside this mixer. Do not attempt any repairs yourself, without being instructed to do so by an authorized American Audio service technician. Doing so will void your manufactures warranty. In the unlikely event your mixer may require service, please contact American Audio® customer support.

Do not discard the packing carton in the trash. Please recycle when ever possible.

Please be sure to make any connections before plugging the mixer in to an electrical outlet. All fader and volume controls should be set to zero or minimum position, before the mixer is switched on. If the mixer has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch on the mixer immediately. The arising condensation of water might damage your device. Leave the device switched off until it has reached room temperature.

Operating Determinations:

- When installing this mixer, please make sure that the device is not exposed or will not be exposed to extreme heat, moisture or dust!
- Do not operate the mixer in extremely hot (more than 30°/100°F) or extremely cold (less than 5°C/40°F) surroundings.
- Keep the unit out of direct sunlight and away from heaters.
- Operate the mixer only after becoming familiar with its functions. Do not permit operation by persons not qualified for operating the mixer. Most damages are the result of unprofessional operation!
- Do not attempt to operate this mixer if the power cord has been frayed or damaged.
- Disconnect from main power before making any type of connection.
- Do not attempt to operate this mixer, if it becomes damaged in any way.
- Never operate this mixer when it's covers are removed.
- To reduce the risk of electrical shock or fire, do not expose this mixer to rain or moisture.
- This mixer is intended for indoor use only, use of this product outdoors voids all warranties.
- During long periods of non-use, disconnect the mixer's main power.

Every 19MXR has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your mixer for any damage and be sure all equipment necessary to operate the mixer has arrived intact. In the event damage has been found or parts are missing, please contact our toll free customer support number for further instructions. Please do not return the mixer to your dealer without first contacting customer support.

MASTER LEVEL - Use this level to control your main volume output. Try never to send an output of more than +4dB to your system. Signal at levels higher than this will start to distort and may cause damage to your system and speakers. Remember that a distorted signal from you mixer will only be multiplied throughout your system.

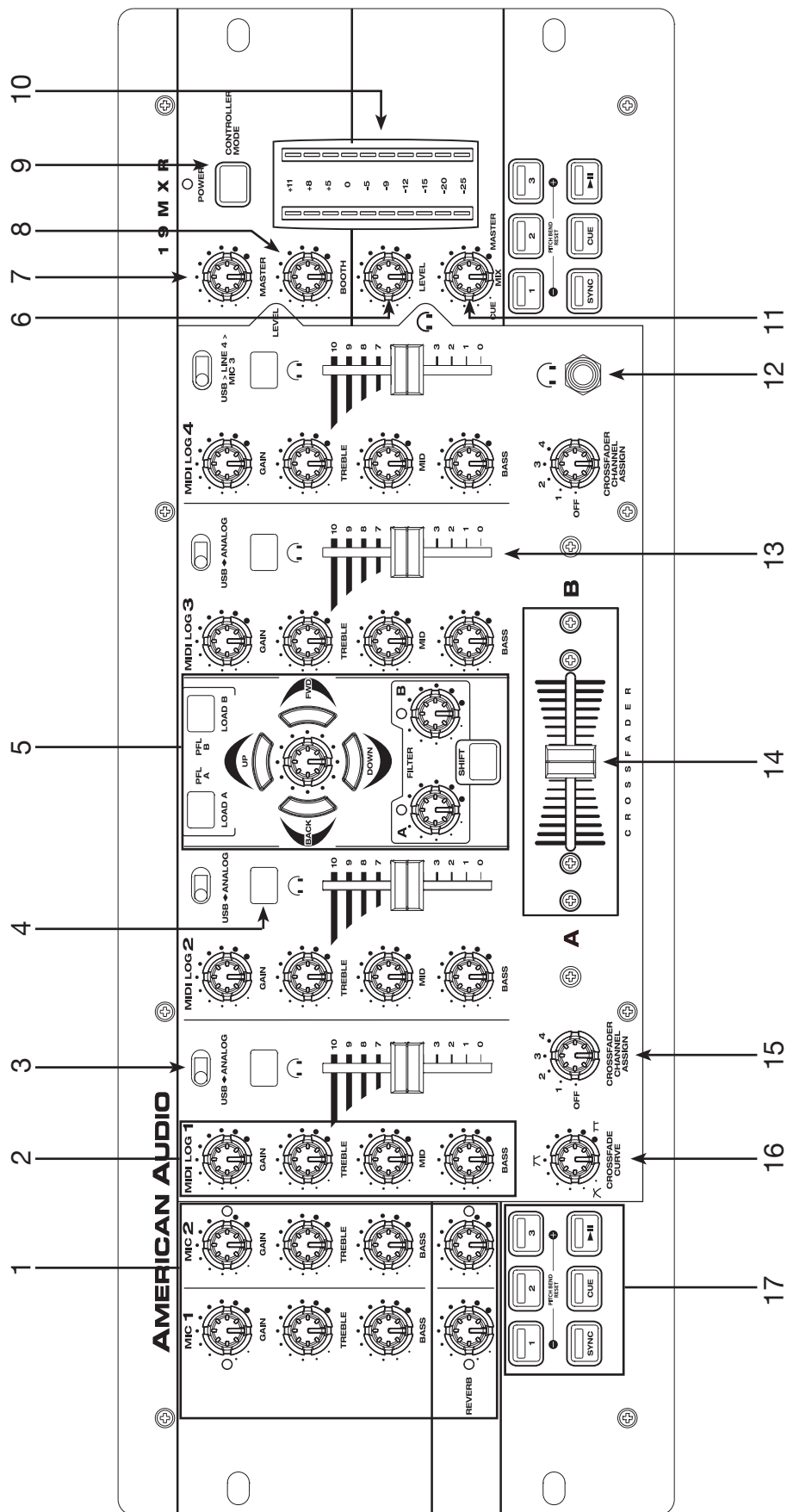
CHANNEL GAIN LEVEL - The channel gain levels are not to be used as volume controls. Never use the channel trim to set the output volume. These controls are used to aid in distortion control. Use these control to preset your signal level before the crossfader. With your channel faders in the maximum position, use the channel trim level to set an average output level of about +4dB on you master level meter.

HEADPHONES - To avoid damaging your headphones always be sure the headphone volume level (6) is set to minimum before plugging them in. To avoid sever hearing damage, never put the headphone on without making sure the headphone level is turned down.

MAIN MIC - The main mic connector uses a combo plug that allows you to connect either a 1/4" unbalanced jack or by a standard 3-pin XLR balanced connector. The main mic also has an independent volume control. When feedback occurs when using the mic, try lowering the level this may reduce the feedback. Always leave the mic level to it's minimum level when not in use. **Note: We recommend that you use a 500-600ohm microphone for the best sound quality.**

CHANNEL LINE LEVEL SELECTOR SWITCHES - This switch is used to change the selected input from phono to line and vice versa. The switch selectors are on the rear panel.

FRONT PANEL



1. MICROPHONE EQ SECTION -

MIC 1 & 2 GAIN CONTROL - These knobs individually control the output volume of *MICROPHONES 1 & 2 (1)*. However, master volume is controlled by the *MASTER VOLUME CONTROL (14)*.

MICROPHONE 1 & 2 TREBLE CONTROL - This knob is used to adjust the treble levels of the Microphone with a maximum signal gain of 12dB or maximum signal decrease of -12dB. Turning the knob in a counter-clockwise direction will decrease the amount of treble applied to the microphone signal, turning the knob in a clockwise direction will increase the amount of treble applied to microphone signal.

MICROPHONE 1 & 2 BASS CONTROL - This knob is used to adjust the low frequency levels of the microphone with a maximum signal gain of 12dB or maximum signal decrease of -12dB. Turning the knob in a counter-clockwise direction will decrease the amount of bass applied to the microphone signal, turning the knob in a clockwise direction will increase the amount of bass applied to microphone signal.

REVERB - When the REVERB is used it simulates the sound you would get as if you were playing music in big empty hall. All the reflections you would get with the music bouncing off the walls is digitally simulated in this effect.

2. CHANNEL EQ -

CHANNEL GAIN CONTROL - This adjustment is used to adjust the audio source signal input gain for a channel. Never use the gain control to adjust a channels output volume. Setting the gain level properly will ensure a clean output signal. An improper gain level adjustment will send a distorted signal throughout the entire audio line which may damage speakers and amplifiers. To properly set a channels gain level control:

1. Be sure the *MASTER VOLUME CONTROL (7)* is set to level 8.
2. Set the *CHANNEL FADER (13)* to level 8.
3. Begin playback on an audio source connected to the channel you are adjusting.
4. Use the Gain Control to adjust an average output volume of +4 dB.
5. Repeat this step for all channels.

CHANNEL TREBLE CONTROL - This knob is used to adjust the treble levels of a channel allowing for a maximum treble gain of 12dB or maximum decrease of -∞dB. Turning the knob in a counter-clockwise direction will decrease the amount of treble applied to a channel signal, turning the knob in a clockwise direction will increase the amount of treble applied to a channel signal.

CHANNEL MIDRANGE CONTROL - This knob is used to adjust the midrange levels of a channel allowing for a maximum midrange gain of 12dB or maximum decrease of -∞dB. Turning the knob in a counter-clockwise direction will decrease the amount of midrange applied to a channel signal, turning the knob in a clockwise direction will increase the amount of midrange applied to a channel signal.

CHANNEL BASS CONTROL - This knob is used to adjust the low frequency levels of a channel allowing for a maximum bass gain of 12dB or maximum signal decrease of -∞dB. Turning the knob in a counter-clockwise direction will decrease the amount of bass applied to a channel signal, turning the knob in a clockwise direction will increase the amount of bass applied to a channel signal.

3. SOURCE SELECTOR SWITCH - These switches are used to select the input source assigned to each channel. Each channel may only be assigned one input source at a time. This switch must be in the "ANALOG" position for turntable and line operation.

4. CUE SELECTOR BUTTON - These buttons are used to activate a channels "CUE" mode. The CUE LED will glow when a channels cue mode is activated. The Cue function sends a channels incoming signal to the headphones. The cue level is adjusted by the *CUE LEVEL KNOB (6)*. Be sure the *CUE MIXING KNOB (11)* is set to the "CUE" position to hear a selected channel source.

5. BROWSER CONTROLS AND FILTERS (MIDI CONTROLS)-

LOAD A (MIDI) - This button will load the selected song to the Left deck. Use the *SHIFT BUTTON* to access the buttons secondary command Load selected song to secondary Left deck.

LOAD B (MIDI) - This button will load the selected song to the Right deck. Use the *SHIFT BUTTON* to

access the buttons secondary command Load selected song to secondary Right deck.

ENCODER & PUSH ACTION - Turn the encoder to increase or decrease the selected action. Pushing down on the encoder activates an action. See the navigation buttons for more info.

UP (MIDI) - This control will set focus on the Left deck FX unit. The Encoder will set the amount for Parameter 1 on the Left FX unit; the SHIFT BUTTON + the ENCODER will set the amount for Parameter 2; and pushing the ENCODER will turn the FX on/off.

FWD (MIDI) - This control will set focus on the Song browser. The ENCODER will browse up/down the song list.

DOWN (MIDI) - This control will set focus on the Right deck FX unit. The Encoder will set the amount for Parameter 1 on the Right FX unit; the SHIFT BUTTON + the ENCODER will set the amount for Parameter 2; and pushing the ENCODER will turn the FX on/off.

BACK (MIDI) - This control will set focus on the Folder browser. The ENCODER will scroll up and down the Folder browser, pressing the ENCODER down will open or close Folders/Devices.

FILTER - Push the Knob in to enable and disable the LPF/HPF filter. The LED indicator will glow when the filter is On. The center position for the Filter is neutral so the signal is will not be filtered. Turn the knob to the left from the neutral position to set the low pass filter, this will cut off all frequencies higher than the amount set on the filter. Turn the knob to the right from the neutral position to set the high pass filter, this will cut off all frequencies lower than the amount set on the filter.

NOTE: The Filter is assigned via the corresponding FADER ASSIGN KNOBS (15), i.e. Filter A is assigned using Deck A FADER ASSIGN KNOB (15). The LED indicator will blink when the filter is enabled but the FADER ASSIGN KNOB (15) is set to the Off position.

SHIFT (MIDI) - The button has 2 functions a soft and a hard shift. A soft shift is performed by toggling the shift button, this will be indicated by a blinking shift LED. A hard shift is performed by holding down the shift button and combining it with another button.

NOTE: When performing a hard shift, it's recommended you release the secondary button before releasing the Shift button, this is to prevent MIDI latches unless the MIDI function is a temporary function.

6. CUE LEVEL VOLUME CONTROL - This knob is used to adjust the headphone volume output level. Turn the knob in a clockwise direction to increase the headphone volume.

7. MASTER VOLUME CONTROL - This knob is used to control the master output level (main volume). To avoid distorted output try to maintain an average output signal level no greater than +4 dB. (see Channel Gain 2) To avoid speaker damage that may be caused by excessive volume, be sure this knob is always set to zero (completely down) before turning the unit on.

8. BOOTH LEVEL - This knob is used to adjust the Booth volume output level. Turn the knob in a clockwise direction to increase the monitor volume.

9. CONTROLLER MODE - This mixer has two operating mode; Mixer mode (default) and Controller mode. To activate Controller mode, hold down the Controller Mode Button when powering up before the VU meter displays the Firmware Version. The LED will glow when Controller Mode is activated. To exit this mode, power down, then power up while holding the Controller Mode button.

Mixer Mode - This mode will route the USB audio stream to 2 Mixer channels, MIDILOG 2 and 3 by default.

NOTE: Set your software audio routing to External mixer. Set Deck A to USB 1+2, Deck B to USB 3+4. Set MIDILOG channels 2 and 3 to USB.

Controller Mode - This mode routes the USB audio streams to the MXR mixers master and headphone outputs.

NOTE: Set your software audio routing to Headphones. Set the Master to USB 1+2 and the Headphones to USB 3+4.

SAMPLER - Virtual DJ has a built in Sampler. Samples 1-3 are stored under Cue buttons 1-3 located on the

left side of the mixer. Samples 4-6 are stored under Cue buttons 1-3 located on the right side of the board. The Controller Mode Button LED will blink when the Sampler is active.

10. MASTER VOLUME LEVEL INDICATORS - The dual MASTER LEVEL LED indicators are used to detail the master output level. The meters will detail the output level of both the left and right channels.

11. CUE MIXING CONTROL - This functions allows you to monitor the Cue level as well as the Program (main output) level in your headphones. A channels Cue Level may only be monitored if the channels *CUE (4)* function is selected. To select a channels cue function press the *CUE BUTTON (4)* that is directly associated with the specific channel you wish to monitor. You may use the mixing function to blend both the Cue level and the Program level together. You can vary the output level to either hear more or less of either of the two levels. Turning the Cue Mixing knob to the CUE position (left) will allow you to hear more of the Cue level. Turning the knob to the PGM position (right) will allow you to hear more of the Program level (main output). You may also use the Cue Mixing Control to hear either the Cue level or the Program level exclusively. If the knob is in the full CUE position you will only hear the cue level, if the knob is in the full PGM position you will only hear the main output. This function is especially useful when mixing without an monitor.

12. HEADPHONE JACK - This jack is used to connect your headphones to the mixer allowing you to monitor the cue source. Use headphones only rated at 8 ohms to 32 ohms. Most DJ headphones are rated at 16 ohm, these are highly recommended. Always be sure the *CUE LEVEL VOLUME (6)* is set to minimum before you put the headphones on.

13. CHANNEL VOLUME FADER - These faders are used to control the output signal of any source assigned to its particular channel. However, master volume is controlled by the *MASTER VOLUME CONTROL (7)*.

14. FEATHER FADER PLUS CROSSFADER - This fader is used to blend the output signals of channels one and two together. When the fader is in the full left position (channel 1), the output signal of channel one will be controlled by the master volume level. The same fundamentals will apply for channel two. Sliding the fader from one position to another will vary the output signals of channels one and two respectively. When the crossfader is set in the center position, the output signals of both the channels one and channels two will be even.

15. FADER ASSIGN KNOB - This knob assigns a channel to the *CROSSFADER (14)*. When a channel is assigned to the left side of the *CROSSFADER (14)* that channels output level is routed to and controlled by the *CROSSFADER (14)*. Sliding the *CROSSFADER (14)* to left position will send the volume output of the assigned channel to the *MASTER VOLUME LEVEL (7)*, siding the *CROSSFADER (14)* to right position will cut that channels volume to *MASTER VOLUME LEVEL (7)*. The reverse is true for the right channel fader assign switch. When the assign switch is set to the "OFF" position the crossfader will have no function.

16. CROSSFADER CURVE ADJUSTMENT - This rotary knob is used to change the way the crossfader will operate. The crossfader can operate in different modes, "NORMAL CURVE", "QUICK CURVE" or any variation of the two. (Quick Curve usually used for scratching).

17. CUE, SYNC, PITCH BEND, & PLAY/PAUSE -

CUE 1, 2, & 3 - These buttons will set or trigger hot cue 1, 2, or 3.

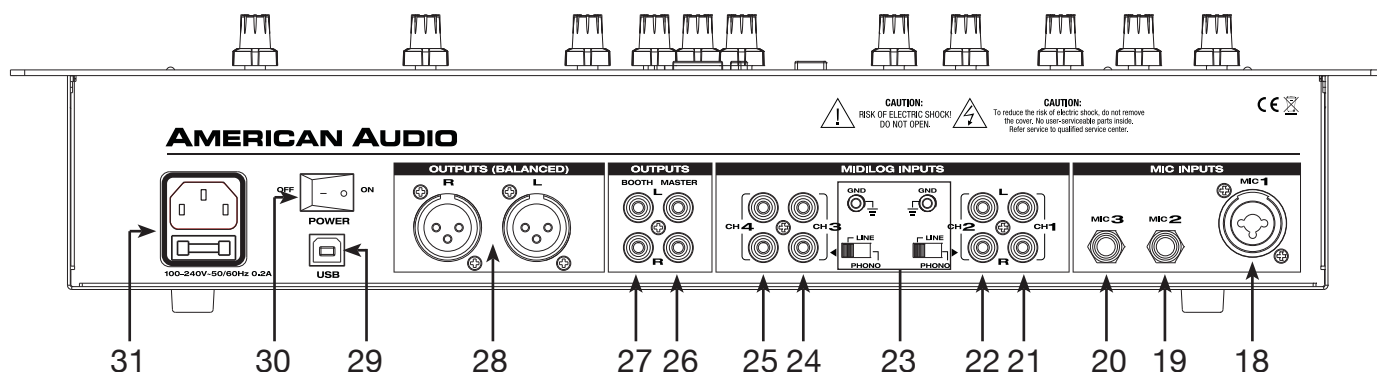
DELETING HOT CUE POINTS - If a hot cue point is set, it is indicated by a lit Cue button LED. If you wish to delete a hot cue point, press the Shift button. The shift button LED will flash along with the Cue LEDs. Press the Cue button that contains the hot cue you wish to delete. After, press the Shift button again to disable the soft shift..

PITCH BEND - To perform temporary pitch bends in Virtual DJ, hold the Shift button and Cue 1 to slow the track. To speed up the track hold the Shift button and press the Cue 3 button. To reset the pitch, hold the Shift button and press Cue 2.

SYNC - Will sync the selected deck to the opposite deck or master deck/tempo.

CUE - When the deck is playing, pressing this button will return to the 1st cue point. If the deck is paused, pressing Cue will set a new cue point.

REAR PANEL



18. MICROPHONE 1 - This combo jack will accept a standard 1/4 plug or XLR 3-pin balanced male plug. The volume output level for this microphone will be controlled by its own respective *MICROPHONE GAIN CONTROL* (1). **Note: We recommend that you use a 500-600ohm microphone for the best sound quality.**

19. MICROPHONE 2 - This jack accepts a standard 1/4 plug. The volume output level for this microphone will be controlled by its own respective *MICROPHONE GAIN CONTROL* (1). **Note: We recommend that you use a 500-600ohm microphone for the best sound quality.**

20. MICROPHONE 3 - This jack accepts a standard 1/4 plug. This microphone will be controlled through the Channel 4 fader. The Channel 4 EQ will also effect the microphone output. Be sure to flip the *SOURCE SELECTOR SWITCH* (3) to the “MIC 3” position to operate this microphone’s input signal. **Note: We recommend that you use a 500-600ohm microphone for the best sound quality.**

21. CHANNEL 1: LINE 1 INPUT JACKS - **DO NOT CONNECT TURNTABLES TO THESE JACKS!** CD players, Tape Decks and other line level instruments may be connected to these jacks. The red colored RCA jack represents the right channel input and the white represents the left channel input. Input volume will be controlled by channel one fader. The channel *SOURCE SELECTOR SWITCH* (3) must be in the “Analog” position, to monitor any source connected to these jacks.

22. CHANNEL 2: INPUTS - The type of input must directly reflect the selected mode of the *CHANNEL LINE LEVEL SELECTOR SWITCH* (23). CD players, Tape Decks and other line level instruments may be connected to these jacks. The red colored RCA jack represents the right channel input and the white represents the left channel input. Input volume will be controlled by channel two fader. The channel *SOURCE SELECTOR SWITCH* (3) must be in the “Analog” position, to monitor any source connected to these jacks. Turntables equipped with MM pickup cartridge (All DJ turntable use MM pick-up cartridges) may be connected to these jacks as long as the *CHANNEL LINE LEVEL SELECTOR SWITCH* (23) is in the “PHONO” position. When CD players, Tape Decks and other line level instruments are connected to these jacks the *CHANNEL LINE LEVEL SELECTOR SWITCH* (23) is in the “LINE” position. Never connect line level instruments (CD players, tape decks, etc.) to these jacks when the *CHANNEL LINE LEVEL SELECTOR SWITCH* (23) is in the “PHONO” position, **THIS MAY SERIOUSLY DAMAGE YOUR MIXER!** The red colored RCA jack represents the right channel input and the white represents the left channel input. The channel *SOURCE SELECTOR SWITCH* (3) must be in the “Analog” position, to monitor any source connected to these jacks.

23. GND (GROUND TERMINAL) - Be sure to connect turntable ground leads to either or both of the two available ground terminals. This will reduce the humming associated with magnetic phono cartridges.

CHANNEL LINE LEVEL SELECTOR SWITCHES - These switches are used to change the voltage line levels of there respected Phono / Line RCA inputs jacks. When connecting turntables with magnetic cartridges to these jacks be sure the corresponding switch is in the “PHONO” position, and when using line

level input devices be sure this switch is in the “LINE” position. Always be sure main power is shut off before change the position of the Line Level Selector Switch.

24. CHANNEL 3: INPUTS - The type of input must directly reflect the selected mode of the *CHANNEL LINE LEVEL SELECTOR SWITCH (23)*. CD players, Tape Decks and other line level instruments may be connected to these jacks. The red colored RCA jack represents the right channel input and the white represents the left channel input. Input volume will be controlled by channel three fader. The channel *SOURCE SELECTOR SWITCH (3)* must be in the “Analog” position, to monitor any source connected to these jacks. Turntables equipped with MM pickup cartridge (All DJ turntable use MM pick-up cartridges) may be connected to these jacks as long as the *CHANNEL LINE LEVEL SELECTOR SWITCH (23)* is in the “PHONO” position. When CD players, Tape Decks and other line level instruments are connected to these jacks the *CHANNEL LINE LEVEL SELECTOR SWITCH (23)* is in the “LINE” position. Never connect line level instruments (CD players, tape decks, etc.) to these jacks when the *CHANNEL LINE LEVEL SELECTOR SWITCH (23)* is in the “PHONO” position, *THIS MAY SERIOUSLY DAMAGE YOUR MIXER!* The red colored RCA jack represents the right channel input and the white represents the left channel input. The channel *SOURCE SELECTOR SWITCH (3)* must be in the “Analog” position, to monitor any source connected to these jacks.

25. CHANNEL 4: LINE 4 INPUT JACKS - *DO NOT CONNECT TURNTABLES TO THESE JACKS!* CD players, Tape Decks and other line level instruments may be connected to these jacks. The red colored RCA jack represents the right channel input and the white represents the left channel input. Input volume will be controlled by channel one fader. The channel *SOURCE SELECTOR SWITCH (3)* must be in the “Analog” position, to monitor any source connected to these jacks.

26. RCA MASTER OUTPUTS - The Master Output includes a pair *XLR BALANCED JACKS (28)* as well as a pair of RCA Unbalanced Jacks. The RCA jacks send a low current unbalanced output signal. These jacks should only be used for shorter cable runs to signal processors or looping to another mixer. For cable runs greater than 15 feet use the *XLR BALANCED JACKS (28)*.

27. BOOTH OUTPUTS - The VMS4 offers a secondary output usually used to monitor your mix or to route to an outboard recording device. This output has independent volume control “Booth” knob.

28. BALANCED XLR MASTER OUTPUT JACKS - The Master Output includes a pair of XLR Balanced jacks as well as a pair of *RCA UNBALANCED JACKS (26)*. The 3-pin XLR jacks send a high current balanced output signal. These jacks should be used when you will be driving an amp or other audio equipment with a balanced input, or whenever you will be running a signal line greater than 15 feet. Always, use these jacks whenever possible.

29. USB PORT - Connect to your computer for MIDI interface and USB interface (audio in and outs).

30. MAIN POWER SWITCH - This is the main power ON/OFF button. Before main power is applied, be sure you have made all connections to the mixer. Also be sure your amplifier(s) is(are) tuned off. Remember to avoid damaging pops to the speakers, the mixer is turned on first and turned off last.

31. AC CONNECTION - This connector is used to supply main power to the unit via the included detachable power cord. The power connection uses an I.E.C. type connector, use only the supplied, polarized AC power cord. Use only a power cord that matches this type of connection. Be sure to only connect this unit to a power outlet that matches the printed power label on the unit. Never use a power cord when the ground prong has been removed or broken off. The ground prong is used to reduce the risk of electrical shock in case of an electrical short. This cord is designed to fit in one direction only. Do not attempt to force a cord if it does not fit, be sure the cord is being inserted properly.

FUSE HOLDER - This housing stores the 10 amp GMA protective fuse. Always replace with the exact same type fuse, unless otherwise instructed, by an authorized American Audio® service technician. Replacing with any other type of fuse than that of the recommended fuse will void your unit warranty.

MXR MIDI interface definition

NOTE: all MIDI messages use channel 1 or channel 2(Shift), Directions OUT and IN (LED) are relative to the Mixer

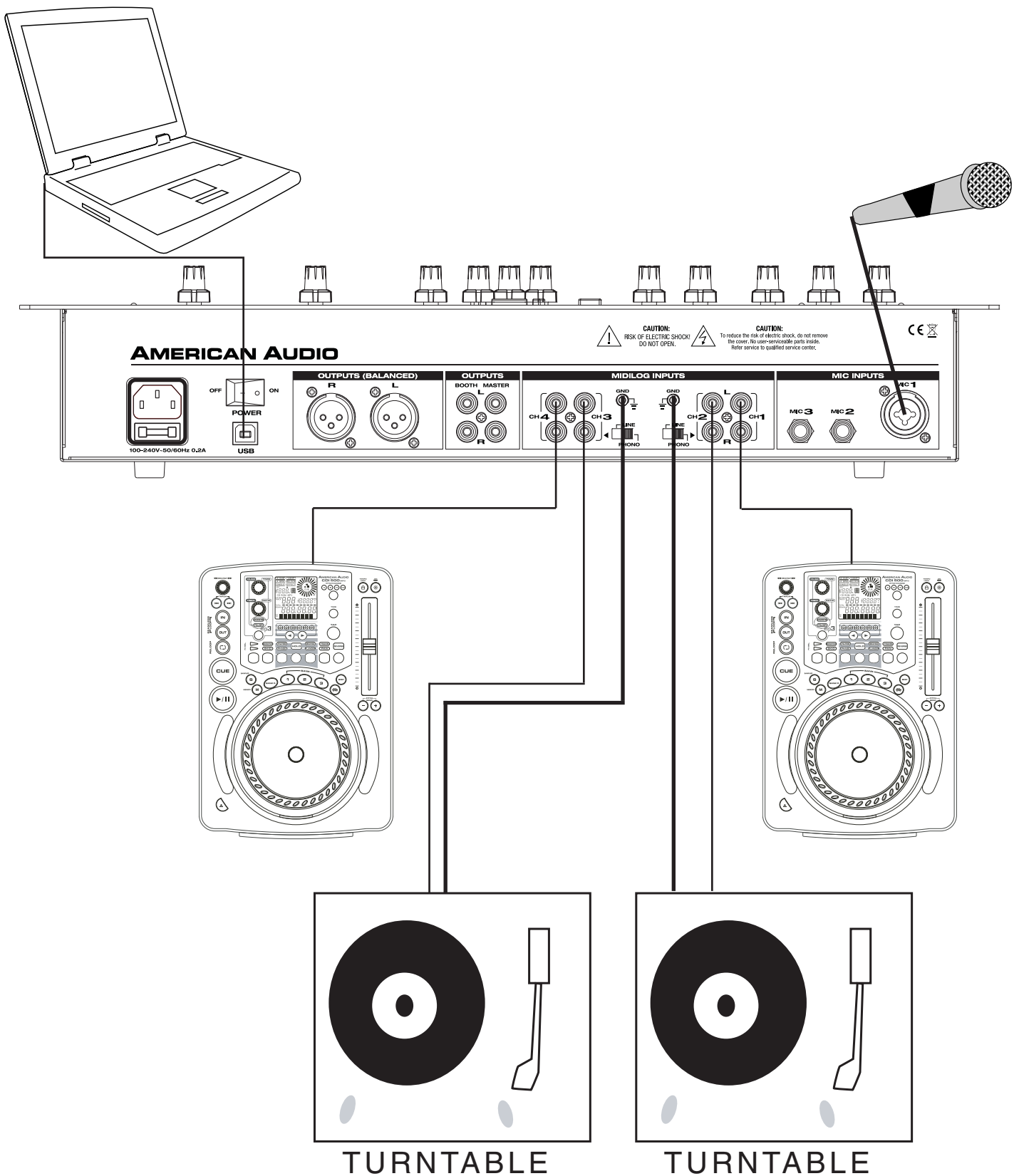
Control number is in decimal format

All rotary VRs start at the minimum in the leftmost position and increase to the maximum when turned clockwise

For all commands except LED, when in controller mode, add 2 to the channel number when Controller mode is on. Ex: Note on 90H (91H) becomes Note on 92H in controller mode

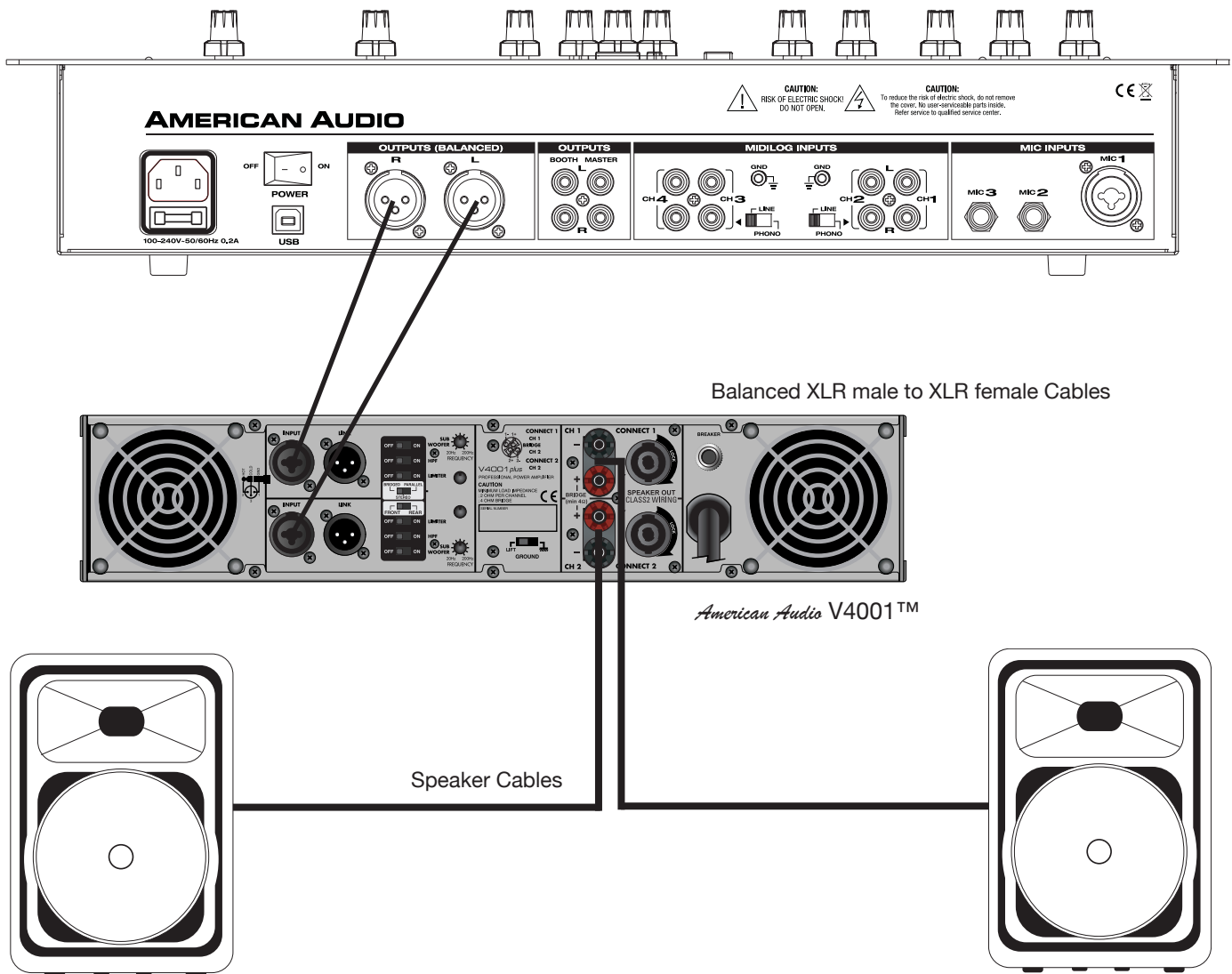
Description	Object	MIDI Decimal	Values	Remarks (Shift)
MIC				
MIC 1 ON/OFF	Button / LED	76 / 76	00H = released, 7FH = pressed	Note on 90H (91H)
MIC 1 GAIN	Knob	XX	N/A	N/A
MIC 1 TREBLE	Rotary VR	21	00H min to 7FH max	Control change B0H (B1H)
MIC 1 BASS	Rotary VR	22	00H min to 7FH max	Control change B0H (B1H)
REVERB MIC1	Rotary VR	23	00H min to 7FH max	Control change B0H (B1H)
REVERB MIC1 PUSH	Button / LED	61 / 61	00H = released, 7FH = pressed	Note on 90H (91H)
MIC 2 ON/OFF	Button / LED	77 / 77	00H = released, 7FH = pressed	Note on 90H (91H)
MIC 2 GAIN	Knob	XX	N/A	N/A
MIC 2 TREBLE	Rotary VR	25	00H min to 7FH max	Control change B0H (B1H)
MIC 2 BASS	Rotary VR	26	00H min to 7FH max	Control change B0H (B1H)
REVERB MIC2	Rotary VR	27	00H min to 7FH max	Control change B0H (B1H)
REVERB MIC2 PUSH	Button / LED	63 / 63	00H = released, 7FH = pressed	Note on 90H (91H)
MIXER				
MIDILOG 1 GAIN	Rotary VR	0	00H min to 7FH max	Control change B0H (B1H)
MIDILOG 1 TREBLE	Rotary VR	1	00H min to 7FH max	Control change B0H (B1H)
MIDILOG 1 MID	Rotary VR	2	00H min to 7FH max	Control change B0H (B1H)
MIDILOG 1 BASS	Rotary VR	3	00H min to 7FH max	Control change B0H (B1H)
USB / ANALOG 1	Slide switch	89	00H = USB, 7FH = ANALOG	Note on 90H (91H)
CUE MIDILOG 1	Button	42	00H = released, 7FH = pressed	Note on 90H (91H)
MIDILOG 1 LINE	Slide VR	4	00H min bottom to 7FH max top	Control change B0H (B1H)
MIDILOG 2 GAIN	Rotary VR	5	00H min to 7FH max	Control change B0H (B1H)
MIDILOG 2 TREBLE	Rotary VR	6	00H min to 7FH max	Control change B0H (B1H)
MIDILOG 2 MID	Rotary VR	7	00H min to 7FH max	Control change B0H (B1H)
MIDILOG 2 BASS	Rotary VR	8	00H min to 7FH max	Control change B0H (B1H)
USB / ANALOG 2	Slide switch	90	00H = USB, 7FH = ANALOG	Note on 90H (91H)
CUE MIDILOG 2	Button	43	00H = released, 7FH = pressed	Note on 90H (91H)
MIDILOG 2 LINE	Slide VR	9	00H min bottom to 7FH max top	Control change B0H (B1H)
MIDILOG 3 GAIN	Rotary VR	10	00H min to 7FH max	Control change B0H (B1H)
MIDILOG 3 TREBLE	Rotary VR	11	00H min to 7FH max	Control change B0H (B1H)
MIDILOG 3 MID	Rotary VR	12	00H min to 7FH max	Control change B0H (B1H)
MIDILOG 3 BASS	Rotary VR	13	00H min to 7FH max	Control change B0H (B1H)
USB / ANALOG 3	Slide switch	91	00H = USB, 7FH = ANALOG	Note on 90H (91H)
CUE MIDILOG 3	Button	44	00H = released, 7FH = pressed	Note on 90H (91H)
MIDILOG 3 LINE	Slide VR	14	00H min bottom to 7FH max top	Control change B0H (B1H)
MIDILOG 4 GAIN	Rotary VR	15	00H min to 7FH max	Control change B0H (B1H)
MIDILOG 4 TREBLE	Rotary VR	16	00H min to 7FH max	Control change B0H (B1H)
MIDILOG 4 MID	Rotary VR	17	00H min to 7FH max	Control change B0H (B1H)
MIDILOG 4 BASS	Rotary VR	18	00H min to 7FH max	Control change B0H (B1H)
USB/ LINE4/ MIC 3 SWITCH	Slide switch	78	00H = USB or ANALOG, 7FH = MIC3	Note on 90H (91H)
CUE MIDILOG 4	Button	45	00H = released, 7FH = pressed	Note on 90H (91H)
MIDILOG 4 LINE	Slide VR	19	00H min bottom to 7FH max top	Control change B0H (B1H)
XF ASSIGN				
XF ASSIGN 1 Left	Rotary Select	93	00H = no assign, 7FH = assign	Note on 90H (91H)
XF ASSIGN 2 Left	Rotary Select	94	00H = no assign, 7FH = assign	Note on 90H (91H)
XF ASSIGN 3 Left	Rotary Select	95	00H = no assign, 7FH = assign	Note on 90H (91H)
XF ASSIGN 4 Left	Rotary Select	96	00H = no assign, 7FH = assign	Note on 90H (91H)
XF ASSIGN 1 Right	Rotary Select	97	00H = no assign, 7FH = assign	Note on 90H (91H)
XF ASSIGN 2 Right	Rotary Select	98	00H = no assign, 7FH = assign	Note on 90H (91H)
XF ASSIGN 3 Right	Rotary Select	99	00H = no assign, 7FH = assign	Note on 90H (91H)
XF ASSIGN 4 Right	Rotary Select	100	00H = no assign, 7FH = assign	Note on 90H (91H)
CROSSFADER	Slide VR	31	00H min left to 7FH max right	Control change B0H (B1H)
CROSSFADER CURVE	Rotary VR	33	00H min to 7FH max	Control change B0H (B1H)
CONTROLLER MODE				
MASTER	Button / LED	108	00H = released, 7FH = pressed	Note on 90H (91H)
BOOTH	Rotary VR	28	00H min to 7FH max	Control change B0H (B1H)
CUE MIX	Rotary VR	30	00H min to 7FH max	Control change B0H (B1H)
CUE LEVEL	Rotary VR	34	00H min (cue/CH1) to 7FH max (master/CH2)	Control change B0H (B1H)
		35	00H min to 7FH max	Control change B0H (B1H)
FILTER				
FILTER PUSH A	Button / LED	22 / 22	00H = released, 7FH = pressed	Note on 90H (91H)
FILTER PUSH B	Button / LED	24 / 24	00H = released, 7FH = pressed	Note on 90H (91H)
FILTER CH A	Rotary VR	37	00H min to 7FH max	Control change B0H (B1H)
FILTER CH B	Rotary VR	39	00H min to 7FH max	Control change B0H (B1H)

LEFT BUTTONS				
CUE Left	Button / LED	12 / 12	00H = released, 7FH = pressed	Note on 90H (91H)
PLAY/PAUSE > Left	Button / LED	13 / 13	00H = released, 7FH = pressed	Note on 90H (91H)
HOT START 1 Left	Button / LED	18 / 18	00H = released, 7FH = pressed	Note on 90H (91H)
HOT START 2 Left	Button / LED	19 / 19	00H = released, 7FH = pressed	Note on 90H (91H)
HOT START 3 Left	Button / LED	20 / 20	00H = released, 7FH = pressed	Note on 90H (91H)
SYNC Left	Button / LED	21 / 21	00H = released, 7FH = pressed	Note on 90H (91H)
RIGHT BUTTONS				
CUE Right	Button / LED	46 / 46	00H = released, 7FH = pressed	Note on 90H (91H)
PLAY/PAUSE > Right	Button / LED	47 / 47	00H = released, 7FH = pressed	Note on 90H (91H)
HOT START 1 Right	Button / LED	52 / 52	00H = released, 7FH = pressed	Note on 90H (91H)
HOT START 2 Right	Button / LED	53 / 53	00H = released, 7FH = pressed	Note on 90H (91H)
HOT START 3 Right	Button / LED	54 / 54	00H = released, 7FH = pressed	Note on 90H (91H)
SYNC Right	Button / LED	55 / 55	00H = released, 7FH = pressed	Note on 90H (91H)
CENTER CONTROLS				
LOAD Left	Button / LED	101 / 101	00H = released, 7FH = pressed	Note on 90H (91H)
LOAD Right	Button / LED	102 / 102	00H = released, 7FH = pressed	Note on 90H (91H)
LEFT navigate	Button	103	00H = released, 7FH = pressed	Note on 90H (91H)
RIGHT navigate	Button	104	00H = released, 7FH = pressed	Note on 90H (91H)
UP navigate	Button	105	00H = released, 7FH = pressed	Note on 90H (91H)
DOWN navigate	Button	106	00H = released, 7FH = pressed	Note on 90H (91H)
CENTER ENCODER	Rotary Encoder	52	3FH=CCW, 41H = CW	Control change B0H (B1H)
Center encoder Push	Button	107	00H = released, 7FH = pressed	Note on 90H (91H)
Shift	touch button / LED	109 / 111	00H = released, 7FH = pressed	Note on 90H



This image details a typical DJ Set Up consisting of a microphone, turntables, CD players, and a tape deck.

Note: Turntables can only be connected to the **PHONO LEVEL RCA JACKS**. Be sure the **LINE LEVEL SELECTOR SWITCHES** are in the "PHONO" position when using turntables.



Typical Balanced Output Set-up

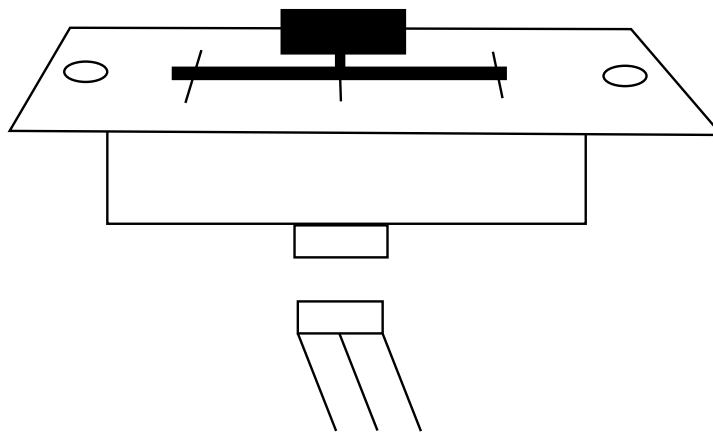
This image details a typical stereo output layout. Note the use of the Balanced XLR Jacks on both the mixer and the amplifier. Always use the balanced output jacks whenever possible. The balanced output jacks should always be used for cable runs in excess of 15 feet.

Using the balanced jacks will ensure a clean signal through out the entire audio system.

Due to fog residue, smoke, and dust, cleaning the mixer should be carried out periodically to residue build up.

1. Use normal glass cleaner and a soft cloth to wipe down the outside casing.
2. Use a cleaner specially designed for electronics to spray in and around the knobs and switch.
This will reduce small particle built up that can effect the proper operation of the mixer.
3. Cleaning should be carried out every 30-60 days to prevent heavy built up.
4. Always be sure to dry all parts completely before plugging the mixer in.

Cleaning frequency depends on the environment in which the mixer operates (i.e. smoke, fog residue, dust, dew).



The crossfader is “Hot Swapable” which means it may be replaced at any time, even when power is applied. Only replace with American Audio Part Feather Fader Plus. Replacing with any other model fader may seriously damage your mixer.

Replacing the Crossfader:

1. Disconnect the mixers main power supply
2. Using a number two Phillips screw driver, unscrew the each of the stainless steel retain screws that hold the crossfader in place.
3. Gently remove the crossfader from its seated position. You may need to wiggle the crossfader slightly to remove it.
4. After removing the crossfader, disconnect the ribbon cable that attaches the crossfader to the PC board. Grasp the crossfader by its base and pull the ribbon cable by its connector not the actual cables. The connector is designed to only fit one way, so don't worry about the connectors orientation.
5. Connect the new crossfader to the ribbon cable and replace in reverse order.

Trouble Shooting: Listed below are common problems you may encounter, and solutions.

There is no power to the unit:

Be sure you have connected the power cord to a correct wall outlet.

There is little or no sound:

1. Check the input selector switch. Make sure it is set to the device that is currently playing.
2. Check to see if the connection cables are connected properly.

The sound is distorted:

1. Make sure that the Gain level control is not set to high.

Crossfader is not working:

Check and see if any channels have been assigned to the crossfader.

The 19MXR carries a one year limited warranty. We recommend you fill out the enclosed warranty card to validate your purchase. All returned service items whether under warranty or not, must be freight pre-paid and accompany a R.A. (return authorization) number. If the mixer is under warranty, you must provide a proof of purchase invoice. You may obtain a R.A. number by contacting our customer support team on our toll free number. Please contact American Audio® customer support at (800) 322-6337 for a R.A. number. All package not displaying a R.A. number on the outside of the package will be returned to the shipper.

1-YEAR LIMITED WARRANTY

A. American Audio® hereby warrants, to the original purchaser, American Audio® products to be free of manufacturing defects in material and workmanship for a period of 1 Year (365 days) from the date of purchase. This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.

B. For warranty service, send the product only to the American Audio® factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, American Audio® will pay return shipping charges only to a designated point within the United States. If the entire instrument is sent, it must be shipped in its original package. No accessories should be shipped with the product. If any accessories are shipped with the product, American Audio® shall have no liability whatsoever for loss of or damage to any such accessories, nor for the safe return thereof.

C. This warranty is void if the serial number has been altered or removed; if the product is modified in any manner which American Audio® concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the American Audio® factory unless prior written authorization was issued to purchaser by American Audio®; if the product is damaged because not properly maintained as set forth in the instruction manual.

D. This is not a service contract, and this warranty does not include maintenance, cleaning or periodic check-up. During the period specified above, American Audio® will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of American Audio® under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of American Audio®. All products covered by this warranty were manufactured after January 1, 1990, and bear identifying marks to that effect.

E. American Audio® reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured.

F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products described above. Except to the extent prohibited by applicable law, all implied warranties made by American Audio® in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has expired. The consumer's and or Dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall American Audio® be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.

G. This warranty is the only written warranty applicable to American Audio® Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

Model: 19MXR - 19-inch, 4-Channel MIDILOG™ Mixer

POWER SUPPLY:	AC 100V ~ 240V AC 50/60Hz (Universal)
DIMENSIONS:	482mm (L) x 178mm (W) x 85mm (H) 19" (L) x 7.25" (W) x 3.5" (H)
WEIGHT:	8 Lbs. / 3.4 Kgs.
CROSSFADER:	Feather Fader Plus Low grounding impedance crossfader
POWER CONSUMPTION:	6W
HEADPHONE IMPEDANCE:	16~64 Ohms
OPERATING TEMPERATURE:	5 to 35 deg. C; Humidity: 25 to 85% RH (non-condensing); Storage Temperature: -10 to 60 deg. C

Input/Output Impedance & Sensitivity: (EQ Flat, Maximum Gain, Load = 100K OHM)

LINE:	-14dB
AUX:	-14dB
PHONO:	-52dB
MIC:	-45dB
REC:	-14dB
MASTER UNBAL.:	5.2V
MASTER XLR (load=600 OHM):	10.8V
DIGITAL OUT (load=75 OHM):	10.8V
PHONES (load=32 OHM):	1.6V

Maximum Input: (1KHz Input, Master Output THD=1%, EQ Flat, FX Off, Maximum Gain)

LINE, AUX:	0.7dB (1V)
PHONO:	-38dB (12.5mV)
MIC:	-30dB (30mV)

Maximum Output: (EQ Flat, Maximum Gain, FX Off, THD=1%)

MASTER:	10.8V
REC:	5.2V
PHONES: (LOAD=32 ohms)	1.6V

Output Noise: (Maximum Gain, EQ Flat, W/20KHz LPF, A-Weighted)

LINE, AUX:	0.7mV
PHONO:	2mV
MIC:	1.5mV

Frequency Response: (EQ Flat, Maximum Gain)

LINE/AUX:	±1dB 10-20KHz
PHONO:	±1.5dB 10-20KHz
MICROPHONE:	±1.5dB 10-20KHz

THD - Total Harmonic Distortion: (EQ Flat, Maximum Gain, W/ 20KHz LPF)

LINE, AUX:	0.03%
PHONO:	0.1%
MIC:	0.1%

CROSS TALK: (Maximum Gain, EQ Flat)

LINE, AUX, PHONO:	-55dB
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Channel Equalizer: (Maximum Gain, Master Unbal Out)

BASS:	-15dB ~ +11dB
MID:	-13dB ~ +11dB
TREBLE:	-24dB ~ +12dB

Microphone Equalizer: (Maximum Gain, Master Unbal Out)

BASS:	-15dB ~ +11dB
MID:	-13dB ~ +11dB
TREBLE:	-24dB ~ +12dB

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©American Audio® World Headquarters:
6122 S. Eastern Ave. Los Angeles, CA 90040 USA
Tel: 323-582-3322 Fax: 323-582-3311

Web: www.AmericanAudio.us E-mail: info@americanaudio.us

American DJ Europe
Junostraat 2
6468 EW Kerkrade
Netherlands

service@adjgroup.eu / www.americandj.eu
Tel: +31 45 546 85 00 / Fax: +31 45 546 85 99