



ka2

Drum Amplifier



User Manual



FCC Statements

1. Caution: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

2. Note. 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 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 the 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.



Congratulations on your purchase of the KAT ka2

This ka2 Amplifier was built from the ground up to offer world-class tone, useful features and reliable performance. Inside this manual, you'll find valuable information about the amp's controls and specifications. Being familiar with its features will help you effectively tailor your drum amp's sound. We wish you many years of employment with your KAT amplifier.

IMPORTANT SAFETY INSTRUCTIONS

Danger

Exposure to extremely high noise levels may cause a permanent hearing loss. Individuals vary considerably to noise induced hearing loss but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a sufficient time.

The U.S. Government's Occupational Safety and Health Administration (OSHA) has specified the following permissible noise level exposures:

Duration per day (hours)	8	6	4	3	2	1
Sound level (dB)	90	93	95	97	100	103

According to OSHA, any exposure in the above permissible limits could result in some hearing loss. Earplugs or protectors in the ear canal or over the ears must be worn when operating this amplification system in order to prevent a permanent hearing loss. If exposure in excess of the limits as put forth above, to insure against potentially harmful exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of inducing high sound pressure levels, sure as this amplification system, be protected by hearing protectors while this unit is in operation.

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE CHASSIS. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

AVIS: RISQUE DE CHOC ELECTRIC-NE PAS OUVRIR.



THIS SYMBOL IS INTENDED TO ALERT THE USER TO THE PRESENCE ON NON-INSULATED "DANGEROUS VOLTAGE" THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.



THIS SYMBOL IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE UNIT.



APPARATUS SHALL NOT BE EXPOSED TO DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.

1. Read all safety and operating instructions before using this product.
2. All safety and operating instructions should be kept for future reference.
3. Read and understanding all warnings listed on the operating instructions.
4. Follow all operating instructions to operate this product.
5. This product should not be used near water, i.e. Bathtub, sink, swimming pool, wet basement, etc.
6. Only use dry cloth to clean this product.
7. Do not block and ventilation openings. It should not be placed flat against a wall or placed in a built-in enclosure that will impede the flow of cooling air.
8. Do not install this product near any heat sources; such as, radiators, heat registers, stove or other apparatus (including heat producing amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades and a 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 being walked on or pinched, particularly a plugs, convenience receptacles and the point where they exit from the apparatus. Do not break the ground pin of the power supply cord.
11. Only use the attachments 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 cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Care should be taken so that objects do not fall and liquids are not spilled into the unit through the ventilation ports or any other openings.
15. Refer all servicing to qualified service personnel. Servicing is required when that apparatus has been damaged in any way; such as 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.
16. WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
17. When the MAINS plug, or an appliance couple is used as the disconnect device, the disconnect device shall remain readily operable.
18. Protective Ground Terminal: The apparatus shall be connected to an AC main socket with a protective earth ground connection.

IMPORTANT SAFETY INSTRUCTIONS

FRENCH

Danger

L'exposition a des niveaux eleves de bruit peut provoquer une perte permanente de l'audition, Chaque organisme humain reagit differemment quant a la perte de l'audition, mais quasiment tout le monde subit une diminution de l'acuite auditive lors d'une exposition suffisamment longue au bruit intense. Les autorites competentes en reglementation de bruit ont defini les expositions tolerees aux niveaux de bruits:

DURATION PER DAY (HOURS)	8	6	4	3	2	1
SOUND LEVEL (dB)	90	93	95	97	100	103

Selon les autorites, toute exposition dans les limites citees ci-dessus,peuvent provoquer certaines pertes d'audition. Des bouchons ou protections dans l'appareil auditif ou sur l'oreille doivent etre portes lors de l'utilisation de ce systeme d'amplification afin de prevenir le risque de perte permanente de l'audition, Dans le cas d'expositions superieures aux limites precitees il est recommande, afin de se premunir contre les expositions aux pressions acoustiques elevees potentiellement dangeureuses, aux personnes exposees aux equipements capables de delivrer de telles puissances, tels ce systeme d'amplification en fonctionnement, de proteger l'appareil auditif.




CE SYMBOLE A POUR BUT D'AVERTIR L'UTILISATEUR DE LA PRESENCE DE VOLTAGE DANGEREUX NON-ISELE A L'INTERIEUR DE CE PRODUIT QUI PEUT ETRE DE PUISSANCE SUFFISAMMENT IMPORTANTE POUR PROVOQUER UN CHOC ELECTRIQUE AUX PERSONNES.



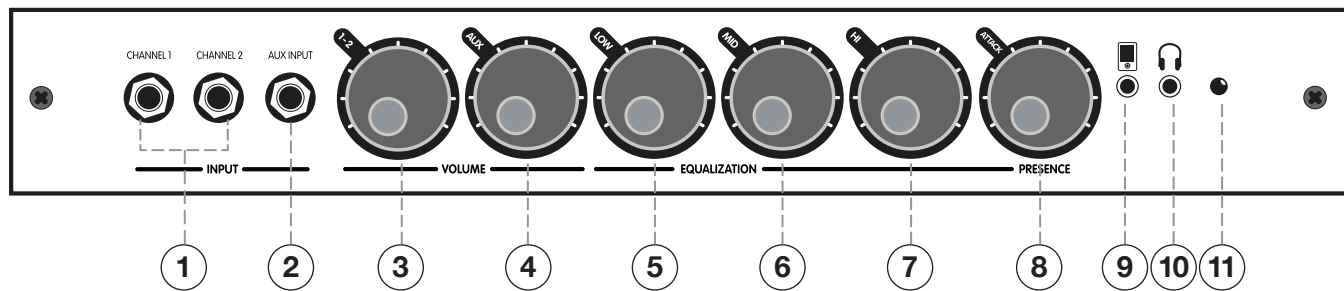
CE SYMBOLE A POUR BUT D'AVERTIR L'UTILISATEUR DE LA PRESENCE D'INSTRUCTIONS D'UTILISATION ET DE MAINTENANCE DANS LES DOCUMENTS FOURNIS AVEC CE PRODUIT.



AFIN DE REDUIRE LES RISQUÉ D'INCENDIE ET DE DECHARGE ELECTRIQUE, NE PAS EXPOSER CET APPAREIL A LA PLUIE OU A L'HUMIDITE.

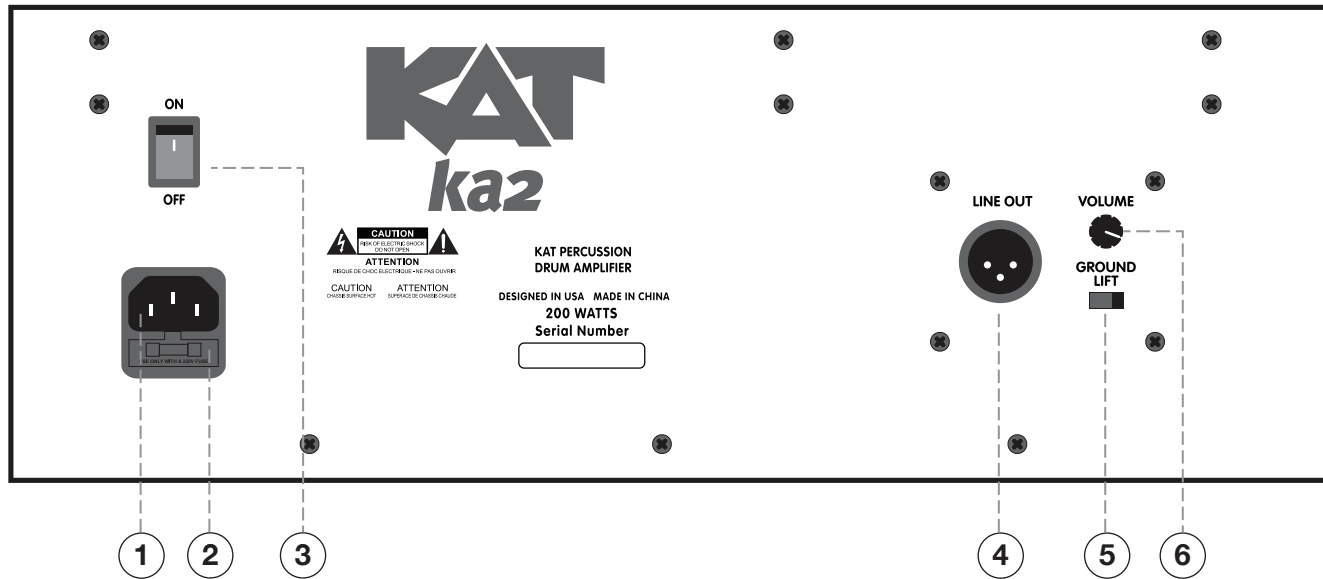
1. Lire avec attention toutes les recommandations et précautions d'emploi avant d'utiliser ce produit.
2. Toutes les recommandations et précautions d'emploi doivent être conservées afin de pouvoir s'y reporter si nécessaire.
3. Lire et comprendre tous les avertissements énumérés dans les précautions d'emploi.
4. Suivre toutes les précautions d'emploi pour utiliser ce produit.
5. Ce produit ne doit pas être utilisé près d'eau, comme par exemple baignoires, éviers, piscine, sous-sol humides ... Etc.
6. Utiliser exclusivement un chiffon sec pour nettoyer ce produit.
7. Ne bloquer aucune ouverture de ventilation. Ne pas placer le produit tout contre un mur ou dans une enceinte fermée, cela générerait le flux d'air nécessaire au refroidissement.
8. Ne pas placer le produit près de toute source de chaleur telle que radiateurs, arrivées d'air chaud, fourneaux ou autres appareils générant de la chaleur (incluant les amplificateurs producteurs de chaleur).
9. Ne pas négliger la sécurité que procure un branchement polarisé ou avec raccordement à la terre, Un branchement polarisé comprend deux fiches dont l'une est plus large que l'autre. Un branchement à la terre comprend deux fiches plus une troisième reliée à la terre. Si la fiche secteur fournie ne s'insère pas dans votre prise de courant, consulter un 'électricien afin de remplacer votre prise obsolète.
10. Protéger le cordon d'alimentation de tout écrasement ou pincement, particulièrement au niveau des fiches, des réceptacles utilisés et à l'endroit de sortie de l'appareil. Ne pas casser la fiche de terre du cordon d'alimentation.
11. Utiliser uniquement les accessoires spécifiés par le constructeur.
12. Utiliser uniquement avec le chariot de transport, le support, le trépied, la console ou la table spécifiés par le constructeur ou vendus avec l'appareil. Lors de l'utilisation d'un chariot, bouger avec précaution l'ensemble chariot/appareil afin d'éviter les dommages d'un renversement. 
13. Débrancher cet appareil lors d'orages ou s'il n'est pas utilisé pendant une longue période.
14. Des précautions doivent être prises afin qu'aucun objet ne tombe et qu'aucun liquide ne se répande à l'intérieur de l'appareil par les orifices de ventilation ou n'importe quelle autre ouverture.
15. Pour toutes interventions techniques s'adresser à un technicien qualifié. L'intervention technique est nécessaire lorsque l'appareil a été endommagé de n'importe quelle façon, comme par exemple si le cordon secteur ou sa fiche sont détériorés, si du liquide a coulé ou si des objets sont tombés à l'intérieur de l'appareil, si l'appareil a été exposé à la pluie ou à l'humidité, s'il ne fonctionne pas normalement ou s'il est tombé.
16. ATTENTION: Pour réduire le risque d'incendie ou de choc électrique ne pas exposer l'appareil à la pluie ou à l'humidité.
17. Quand La prise MAINS, au coupler, est utilisé pour la source d'alimentation électrique. Il est conseillé de garder cette prise facilement accessible.
18. Borne de terre de protection: L'appareil doit être connecté à un connecteur AC principale avec un raccordement à la terre de protection.

Front Panel



- 1** Inputs 1 and 2:
These are 1/4-inch input jacks for connecting your drum module to the amplifier. They use the same volume control, labeled 1-2.
 - 2** Aux Input:
This 1/4-inch jack is used for connecting any pre-EQ audio source. The volume of the Aux Input is controlled by the Aux Volume control. If using a stereo TR cable, the two signals are summed together.
 - 3** 1-2 Volume:
This controls the volume level of the drum inputs to the power amplifier.
 - 4** Aux Volume:
This controls the volume level of the Aux Input.
- Equalization Section:
These control the overall tone of the ka2 Drum Amplifier.
- 5** Low:
This controls frequencies centered at 60Hz with a +/-12 dB sweep.
 - 6** Mid:
This controls frequencies centered at 800Hz with a +/-12 dB sweep.
 - 7** High:
This controls frequencies centered at 10kHz with a +/-12 dB sweep.
 - 8** Attack:
This EQ control tailors the upper mid-range to accentuate the snare drum and enhances the presence on other instruments.
 - 9** Line In:
This is a 1/8-inch stereo line input. It bypasses the drum amplifiers EQ tone controls and feeds straight into the power amplifier. Use the volume and tone controls on your external device to control the audio signal.
 - 10** Headphone Jack:
This is a 3.5mm stereo output jack. When used, it turns off the internal speaker. It combines all inputs from your drums, Aux Input and Line In for silent practice.
 - 11** Power Indicator Light:
Indicates that the power switch is in the "ON" position.

Rear Panel



- 1** AC Power Cord Receptacle:
Insert the AC cord (provided) firmly into the AC connector. NOTE: Replace the AC power cord if protective jacket is damaged or ground pin is damaged or removed.

NOTE: To prevent an electrical hazard, DO NOT replace fuse without using the fuse carriage. Replace the fuse carriage if lost or damaged before re-inserting the AC power cord.
- 2** Fuse:
The fuse is located in a housing just below the receptacle. Replace only with the same fuse type and size. To remove the fuse, remove the AC power cord and pull out on the tab above the fuse symbol located on the fuse carriage. Place the new fuse in the carriage clip and re-insert.
- 3** Power Switch:
Provides AC power to the amplifier when in the “ON” position.
- 4** Line Out:
This balanced jack is designed to connect the ka2 Amplifier to a recorder or live mixer. This out put is very useful for direct recording and especially helpful for live applications, since it eliminates a live microphone on stage and the potential for feedback.

Note: If using an XLR to ¼-inch cable, Pin 2 is tip (+) and Pin 1 and 3 sleeve (-).
- 5** Ground Lift:
The Ground Lift switch disconnects pin 1 of the XLR Line Out jack to eliminate a “ground loop” hum. A ground loop can exist when the ka2 and the device it is plugged into are connected to grounded outlets that are in physically different locations and/or on different circuits and should only be used if there is an audible hum. Sliding the ground lift does not disconnect the ground connection from the ka2 chassis.
- 6** Line Out Volume:
This controls the output level of the Line Out Jack. If the Line Out Jack is overdriving a live mixer or recorder, try turning down the Line Out Volume to minimize distortion.

ka2 Specifications

Output Power (RMS 1%)	200W/8 Ω \times 1	Internal Speakers
	500mW/32 Ω \times 2	Output to Headphones (Mono Mix)
Frequency Response	20-20KHz	Actual response is tailored for accurate acoustic response for electronic drums
Hum and Noise	-55 dBV	All controls turned down
	-50 dBV	All controls turned halfway
Input Impedance	10K Ω	All inputs
Input Levels	<i>(All measurements made at 1 kHz, EQ Controls flat and volumes Max.)</i>	
	-16 dBV	INPUT 1 to achieve full output
	-10 dBV	INPUT 2 to achieve full output
	-10 dBV	AUX to achieve full output
	-10 dBV	1/8-inch line to achieve full output
Line Out	0 dBV	Post Input 1, 2 Aux in. Pre EQ, 3.5mm line in
Tone Controls (EQ Centers)	60Hz, 800Hz, 10kHz	3 band, 12 dBV, Center Flat
Attack	3.5KHz centered	CCW (min) flat, CW (max) +12dBV
AC Power Requirements	400 W	At full output
	14 W	At idle
Speakers	1 \times 12-inch woofer	Special design 8 Ω rated 200W RMS
	1 \times 1-inch Compression Driver	20W Neodymium magnet, Phenolic diaphragm
Dimensions English (In)	16 1/2"D \times 18"W \times 19"H	including feet
Dimensions Metric (cm)	420mmD \times 455mmW \times 480mmH	including feet
Weight	44.25 lbs / 20.1 Kg	



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