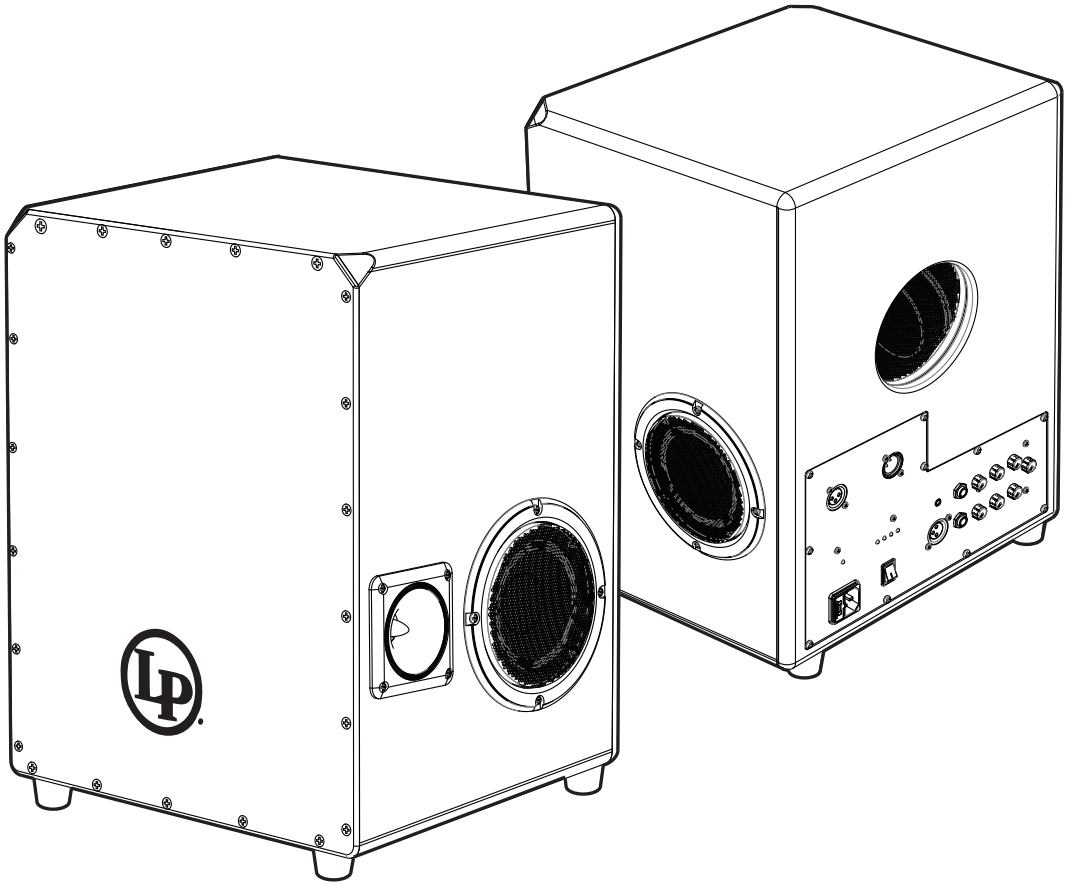
LATIN PERCUSSION INC.

LP1440



Congratulations on the purchase of your Latin Percussion LP1440 Cajon Amplifier with Bluetooth.

The Latin Percussion LP1440 combines over 50 years of experience making the world's best percussion instruments with world-class amp design and manufacturing to bring you this revolutionary product. This cajon was built from the ground up to offer a great sound and playing experience with an amplifier that comes with world-class tone, a state-of-the-art feature set and reliable performance.

Inside this manual, you'll find valuable information about your product's controls and specifications.

Being familiar with its features will help you effectively use your new cajon amp.

We wish you many years of enjoyment with your Latin Percussion Cajon Amplifier with Bluetooth.

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, such 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 ELECTRIQUE-NE PAS OUVRIR.

THIS SYMBOL IS INTENDED TO ALERT THE USER TO THE PRESENCE OF NON-INSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE 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.

Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan

Apparatet må tilkoples jordet stikkontakt

Apparaten skall anslutas till jordat uttag

Apparatets stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord.

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 understand 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 any 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 with one wider than the other. A grounding-type 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 at 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 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 the 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 coupler 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.

Battery Warning: Do not expose to extreme temperatures. Keep out of direct sunlight. Keep away from Open Flames

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 I’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 eIevees potentielIement 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-ISOLE 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.

Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan

Apparatet må tilkoples jordet stikkontakt

Apparaten skall anslutas till jordat uttag

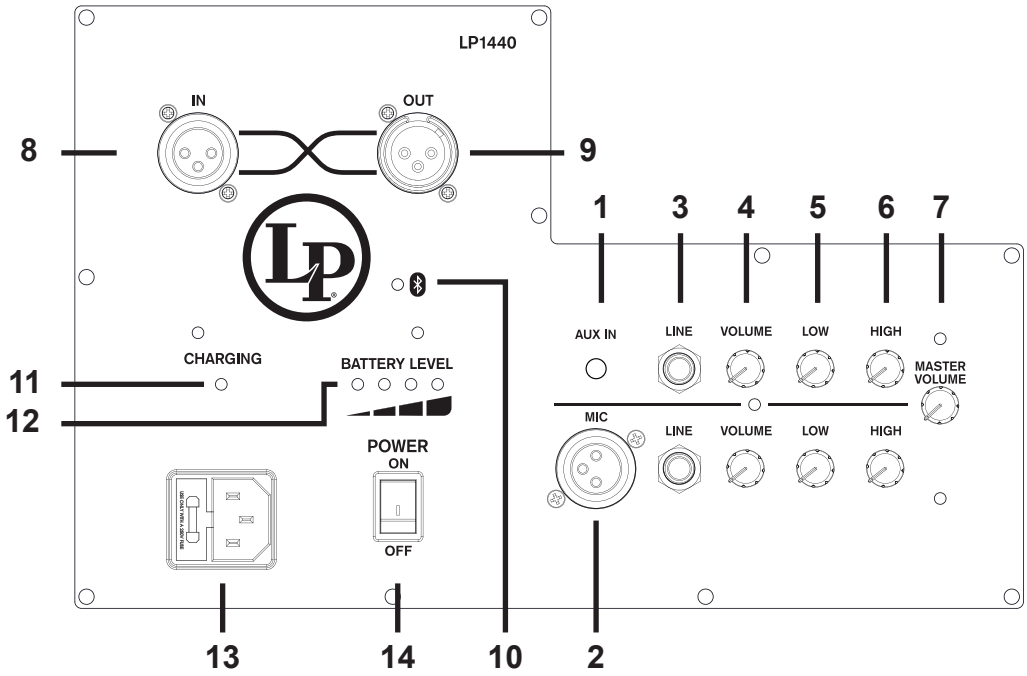
Apparatets stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord.

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 bloquér aucune ouverture de ventilation. Ne pas placer le produit tout contre un mur ou dans une enceinte fernée, cela gênerait le flux d'air nécessaire au refroidissement.
8. Ne pas placer le produit près de toute source de chaeur 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'insert 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 chariotlappareil 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 orifics 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'apparei1,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. ATTENTI0N:Pour réduire le risque d'incendie ou de choc electrique 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 êlectrique. Il est conseillê 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.

Avertissement de batterie: Ne pas exposer à une température extrême. Protéger du rayonnement solaire. Tenir à l’écart de la des flammes.

CONTROLS & FUNCTIONS OVERVIEW



1. AUX IN: Use this stereo input to connect an external audio device such as an MP3, CD player or computer for playback. Note: Right and Left channels are summed to mono on this input.

2. MIC Input: This XLR input is designed for low-impedance microphones or equipment that has a mic-level, balanced output.
Note: *This input sends 9-volt phantom power. This is used to provide power to condenser microphones. Phantom power will not damage any dynamic or non-condenser microphone.*

3. LINE Inputs: These ¼-inch unbalanced inputs may be used to connect high-impedance microphones, keyboards, drum machines and other audio devices.

4. Volume: Use these controls to adjust the volume level of each channel and the relative balance between them.
Note: *This control affects the level of the OUT jack.*

5. Low: Determines the emphasis of bass frequencies. Turning this knob clockwise creates a deeper, warmer tone. If you need a brighter sound, reduce the bass by turning counterclockwise.

6. High: Turned clockwise, this control accents treble frequencies to produce clearer, crisper sound. Turn counterclockwise to make the sound softer and less bright.

7. Master Volume: Controls the overall volume of the LP1440.
Note: *Does not affect the level of the OUT jack.*

8. IN: This balanced XLR Jack is a line level input that bypasses the preamp controls. Use a standard XLR mic cable to connect a balanced line level output to be amplified through the LP1440. This signal is summed with the other inputs, and that signal can be controlled by the master volume.
Note: *The shield connection (pin 1) on this jack is connected to chassis ground. It is not lifted.*

9. OUT: This balanced XLR Jack is a line level output of all the input signals, including the IN jack. It is used to send your signal to an external mixer or PA system. Use the Channel Volume controls to get the right balance for the mix of the channels. The IN jack's signal will be passed directly to the OUT jack. The Master Volume controls the loudness of the mix through the cajon, not the OUT jack.
Note: *The shield connection (pin 1) on this jack does not connect to chassis ground. It is lifted.*

10. Bluetooth LED: Indicates that a Bluetooth equipped device has successfully paired with the LP1440.

11. CHARGING LED: LED indicates “rapid charge” stage and will turn off when unit enters “float charge” stage. It is recommended to charge for 12 hours after use. Battery charges even if the unit is ON under normal volume conditions. When played loud, the battery will stop charging to allow higher power demand. To resume charging, uplug AC power cord, then reconnect after 10 seconds.

12. BATTERY LEVEL INDICATOR: During use, the BATTERY LEVEL indicator LED’s show the remaining battery power. When the red light on the left is on, turn off the unit and recharge to avoid excessive battery drain.

13. AC Power Cord Receptacle: Insert the AC cord firmly into the AC receptacle. Power circuit is on whenever AC cable is connected to unit and plugged into wall. Be sure to use the cable provided with your LP1440. The power cord can be removed for storage or replacement if damaged.
Note: *Replace the AC cord if its protective jacket is damaged or ground pin is damaged or removed.*

14. Power: This switch activates power to the battery powered product.
Note: *Power is supplied to the unit for charging even if Power switch is off.*

LP1440:

BLUETOOTH PAIRING INSTRUCTIONS

To connect your Bluetooth device to the LP1440 Bluetooth receiver for the first time, navigate to the Bluetooth settings menu on your Bluetooth enabled device. Ensure that Bluetooth is enabled and your LP1440 is powered on.
Perform a scan for available devices. Select and pair to the LP1440 in the list of available devices.
Enter 0000 for the passcode if prompted. Once paired, a connection can be established. Depending on the device, future connections may be established automatically when a previously paired Bluetooth device is in range of the LP1440 Bluetooth receiver.

The Bluetooth receiver in the LP1440 is an A2DP device and will work with other A2DP compatible Bluetooth devices including most smart phones. Additional hardware and/or driver software may be required for computers with integrated Bluetooth adaptors due to a lack of support for A2DP devices by some operating systems.

A2DP protocol only allows for one to one device connections. Therefore, only one Bluetooth device can be connected to the LP1440 at a time. Similarly, a Bluetooth device can only be connected to one LP1440 at one time. Plugging a 1/8” connector into the AUX jack disables the LP1440 Bluetooth receiver.

BATTERY:

IT IS RECOMMENDED THAT THE BATTERY BE RECHARGED AFTER USE TO PROLONG THE BATTERY LIFE. FREQUENT CHARGING WILL NOT HARM YOUR BATTERY, AND WILL ENSURE THAT THE BATTERY IS FULLY CHARGED AND READY FOR ITS NEXT USE. STORING BATTERY NOT FULLY CHARGED WILL SHORTEN BATTERY LIFE.

-Always charge for 12 full hours after heavy use.

-The battery does not need to be fully discharged before recharging.

-It is recommended to stop using the unit under battery power when red Battery Level LED is on.

-For best results, recharge the unit as soon as possible after use.

-It is best if battery is fully charged before storing for long periods of time. Store in a cool, dry place.

Additional Features: Here are a few additional features designed to prolong the life of your Battery Powered PA.

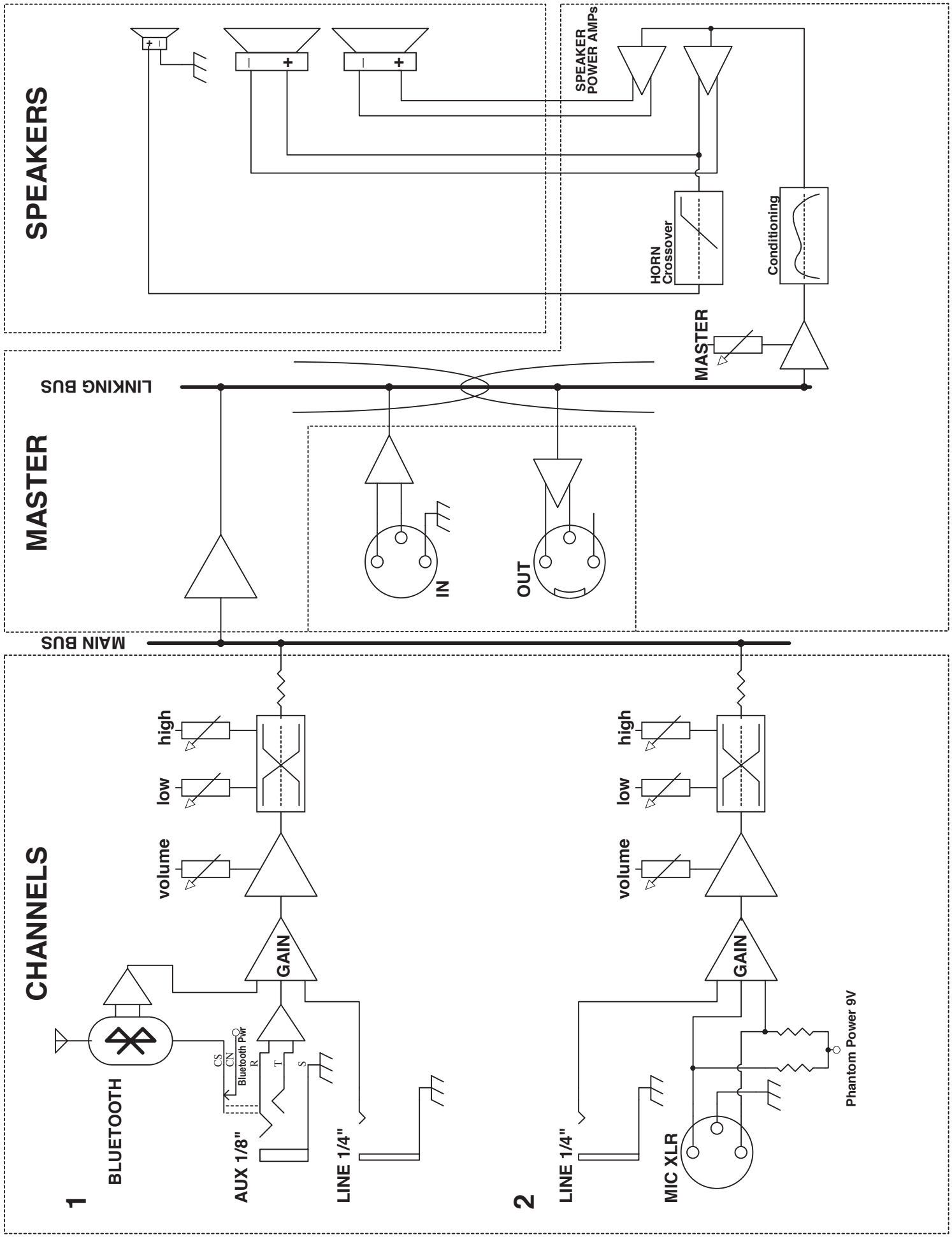
Standby Mode: Power amplifier goes into Standby Mode after 20 minutes of non-use with POWER ON to extend battery life. Power Amp turns back on 1/2 second after input signal is detected.

Protection Mode: When driven to extreme distorted levels the amplifier will go into Protection Mode (Amplifier will momentarily mute audio to protect speakers and electronics).

LP 1440 Cajon Amplifier with Bluetooth Specifications

Output Power	40W	AC powered with fully charged battery
	36W	Battery powered
Accepted Inputs	CH 1	1/8" Headphone/line Level Stereo, mixed mono
		Line level 1/4" Un-balanced
	CH 2	Mic XLR Balanced
		Line level 1/4" Un-balanced
Bluetooth Module Features.	Bluetooth 3.0+ERD compliant. Typical +2dBm Class 2 power. Audio DAC: 94dB SNR.A2DP profile support	
Hum & Noise	-56dB	Residual Noise, all level controls 0% (minimum)
	-52dB	Nominal System Noise, all level controls at 50%
System Gain (Measurements made at 1kHz)	+70dB	Mic to Speaker Output (CH 1 & 2)
	+50dB	Line to Speaker Output (CH 1 & 2)
	+40dB	AUX IN to Speaker Output
Channel EQ (high, low)	4kHz and above , 800Hz and below.	
(IN and OUT)	Both jacks accept a balanced input and send a pre-master volume output mix of channels.	
Phantom Power	+9V	Mic Input
Power Requirements	USA/Canada	120VAC/60Hz, 80W nominal
	Europe/UK/Australia	230~240VAC/50Hz, 80W nominal
	China	220VAC/50Hz, 80W Nominal
Speakers	Two 4½"	50W 4 Ohm each
Horn	One 3½" piezo driver	
Power Capacity	40W	RMS total system
Frequency Response system	110 Hz – 20 kHz	92dB 1W-1M nominal
Nominal Impedance	2x4 Ohms	Not designed for external speakers
Dimensions & Weight	mm/kg	330mm W x 450mm H x 300mm D / 10.7 kg
	Inches/Pounds	13in W x 17$^{3/4}$in H x 11$^{3/4}$in / 23.64 lbs

LP1440 SIGNAL FLOW DIAGRAM



Caution:
This device complies with Part 15 of the FCC Rules / Industry Canada licence-exempt RSS standard(s).
Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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

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.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

MPE Reminding
To satisfy FCC / IC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation.To ensure compliance, operations at closer than this distance is not recommended.

Les antennes installées doivent être situées de facon à ce que la population ne puisse y être exposée à une distance de moin de 20 cm. Installer les antennes de facon à ce que le personnel ne puisse approcher à 20 cm ou moins de la position centrale de l' antenne. La FCC des éltats-unis stipule que cet appareil doit être en tout temps éloigné d'au moins 20 cm des personnes pendant son functionnement.

EC Declaration of Conformity

We: Drum Workshop Inc.
Oxnard, CA 93030
Tel: 800-453-7867

Declare that the product

Product name: Latin Percussion

Product model numbers: LP1440

to which this declaration relates is in conformity with the following standards;

EN55013: 2001/+A1: 2003+A2: 2006	Limits and methods of measurement of radio disturbance characteristics of broadcast receivers and associated equipment.
EN55020: 2007	Electromagnetic immunity of broadcast receivers and associated equipment.
EN61000-3-2: 2006/+A1: 2009 + A2: 2009	Limits for harmonic current emissions (equipment input current < 16A per phase).
EN61000-3-3: 2008	Limitation of voltage fluctuations and flicker in low voltage supply systems for equipment with rated currents < 16A.
EN60065: 2002 + A1:2006 + A11: 2008 + A2:2010 + A12:2011	Safety requirements for main operated electronic and related apparatus for household and similar general use.

Following the provisions of EU Council Directive(s): 2004/108/EC and 2006/95/EC.

We the undersigned, hereby declare that the equipment specified above conforms to the aforementioned directive(s).

Name of authorized person: Fred Conrad, Manager Engineering services

Signature: Fred Conrad Date: 22 February, 2017

Drum Workshop Inc.
Oxnard, CA 93030
Tel: 800-453-7867