Congratulations on the purchase of your Kustom Battery Powered PA.

Kustom PA40BATBT Models draw on decades of amp design and manufacturing experience at Kustom. These products were built from the ground up to offer world-class tone, useful features 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 system. We wish you many years of enjoyment with your Kustom Battery Powered PA.
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 façon à ce que la population ne puisse y être exposée à une distance de moins de 20 cm. Installer les antennes de façon à ce que le personnel ne puisse approcher à 20 cm ou moins de la position centrale de l'antenne. La FCC des États-unis stipule que cet appareil doit être en tout temps éloigné d'au moins 20 cm des personnes pendant son fonctionnement.

FCC ID:2AAVGHMG1406A
IC:11349A-HMG1406A
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:

<table>
<thead>
<tr>
<th>DURATION PER DAY (HOURS)</th>
<th>8</th>
<th>6</th>
<th>4</th>
<th>3</th>
<th>2</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOUND LEVEL (dB)</td>
<td>90</td>
<td>93</td>
<td>95</td>
<td>97</td>
<td>100</td>
<td>103</td>
</tr>
</tbody>
</table>

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.

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**

1. Read all of the instructions before using this product.
2. Follow all instructions and precautions when using this product.
3. Never use this product near water or in a humid environment.
4. Keep this product away from direct sunlight and heat sources.
5. Do not expose this product to extreme temperatures.
6. Do not use this product near any flammable material.
7. Always use the appropriate power supply for this product.
8. Do not disassemble or modify this product.
9. Do not attempt to repair this product yourself.
10. Consult a qualified technician for repairs.

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**FRENCH**

**DANGER**

L'exposition à des niveaux élevés de bruit peut provoquer une perte permanente de l'audition. Chaque organe de l'audition reagit différemment quant à la perte de l'audition, mais quasiment tout le monde subit une diminution de l'audition auditive lors d'une exposition suffisamment longue au bruit intense. Les autorités compétentes en réglementation de bruit ont défini les expositions tolérées aux niveaux de bruits:

<table>
<thead>
<tr>
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Selon les autorités, toute exposition dans les limites citées ci-dessus, peuvent provoquer certaines pertes d’audition. Des bouchons ou protections dans l’appareil auditif ou sur l’oreille doivent être portes lors de l’utilisation de ce système d’amplification afin de prévenir le risque de perte permanente de l’audition. Dans le cas d’expositions superieures aux limites précitées il est recommandé, afin de se prémunir contre les expositions aux pressions acoustiques élevées, aux personnes exposées aux équipements capables de délivrer de telles puissances, tels ce système d’amplification en fonctionnement, de protéger l’appareil auditif.

**ATTENTION**

RISQUE DE CHOC ELECTRIQUE
NE PAS OUVRIR.

**ATTENTION:** APRI DE LIMITER LE RISQUE DE CHOC ELECTRIQUE, NE PAS ENLEVER LE CHASSIS, NE CONTIENT PAS DE PIECES POUVANT ÊTRE REPARÉE PAR L’UTILISATEUR, COMPRIS LE SERVICE APRÈS-VENTE AUX REPARATEURS AGREE.

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 IMPORTANT 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 RISQUES D'INCENDIE ET DE CHARGE 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 tilsluttet en stikkontakt med jord, som giver forbindelse til stikpropens jord.

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

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 all channels and the input of SYNC. **Note:** Does not affect SYNC Output level.

**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).
1. **SYNC IN:** This balanced XLR Jack accepts the SYNC output from another PA unit using a standard mic cable. Channels from both units are summed together. Use the channel volume controls to get the mix of the channels (If a channel is not used turn the volume all the way down). MASTER volume controls the loudness of the mix. It does not affect volume of a linked PA product.

   *Note:* The shield connection (pin 1) on this jack is connected to chassis ground. It is not lifted.

2. **SYNC OUT:** This balanced XLR Jack accepts the SYNC input from another PA unit using a standard mic cable. Channels from both units are summed together. Use the channel volume controls to get the mix of the channels (If a channel is not used turn the volume all the way down). MASTER volume controls the loudness of the mix through the primary unit, not the linked unit. This jack may also be used to connect the PA product to the balanced line input of a power amp.

   *Note:* The shield connection (pin 1) on this jack does not connect to chassis ground, it is lifted.

3. **Bluetooth LED (PA40BATBT ONLY):** Indicates that a Bluetooth equipped device has successfully paired with the PA40BATBT.

4. **CHARGING LED:** Indicates the battery is charging. 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, unplug AC power cord, then reconnect after 10 seconds.

   *Note:* LED indicates "rapid charge" stage and will turn off when unit enters "float charge" stage.

5. **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.

6. **AC Power Cord Receptacle & Fuse Holder:**
   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 PA40BATBT. 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.

7. **Power:** This switch activates power to the Battery Powered PA.

   *Note:* Power is supplied to the unit for charging even if Power switch is off.
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 the battery is fully charged before storing for long periods of time. Store in a cool, dry place.

How do I stay safe when working with a battery?
Whenever you’re handling or working with a lead-acid battery, consult your vehicle and battery Owner’s Manual for safety precautions.

In the event of an accident, flush affected area with water, and call a physician immediately.

Lead-acid batteries contain hydrogen-oxygen gases that can be explosive and sulfuric acid that can cause severe burns. To help avoid risk of danger and injury, observe these precautions when handling or working with a lead-acid battery:

•Wear ANSI* approved safety glasses or goggles and a face shield.
•Wear proper clothing to protect your face, hands, and body.
•Make sure your work area is well-ventilated.
•Never lean over battery while jump-starting, testing, or charging.
•Cigarette, flames, or sparks could cause a battery to explode. Keep all ignition sources away from the battery.
•Remove all hand and wrist jewelry. Jewelry could make an electrical contact and cause severe burns by coming in contact with the terminals.
•Always shield eyes and face from battery.
•Do not charge or use booster cables or adjust post connections without proper instructions and training.
•KEEP VENT CAPS TIGHT AND LEVEL.
•KEEP OUT OF REACH OF CHILDREN.

*ANSI - American National Standards Institute.

PA40BATBT Powered PA Specifications

<table>
<thead>
<tr>
<th>Output Power</th>
<th>40W</th>
<th>AC powered with fully charged battery</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>36W</td>
<td>Battery powered</td>
</tr>
<tr>
<td><strong>Accepted Inputs</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CH 1</td>
<td>1/8&quot; Headphone/line Level Stereo, mixed mono</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Line level 1/4&quot; Un-balanced</td>
<td></td>
</tr>
<tr>
<td>CH 2</td>
<td>Mic XLR Balanced</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Line level 1/4&quot; Un-balanced</td>
<td></td>
</tr>
<tr>
<td><strong>Bluetooth Module Features.</strong></td>
<td>Bluetooth 3.0+ERD compliant. Typical +2dBm Class 2 power. Audio DAC: 94dB SNR.A2DP profile support</td>
<td></td>
</tr>
<tr>
<td><strong>Frequency Response</strong></td>
<td>20HZ-20kHz</td>
<td>Actual response is tailored to speaker cabinet for accurate acoustical response.</td>
</tr>
<tr>
<td><strong>Hum &amp; Noise</strong></td>
<td>-56dB</td>
<td>Residual Noise, all level controls 0% (minimum)</td>
</tr>
<tr>
<td></td>
<td>-52dB</td>
<td>Nominal System Noise, all level controls at 50%</td>
</tr>
<tr>
<td><strong>System Gain</strong></td>
<td>+70dB</td>
<td>Mic to Speaker Output (CH 1 &amp; 2)</td>
</tr>
<tr>
<td>(Measurements made at 1kHz)</td>
<td>+50dB</td>
<td>Line to Speaker Output (CH 1 &amp; 2)</td>
</tr>
<tr>
<td></td>
<td>+40dB</td>
<td>AUX IN to Speaker Output</td>
</tr>
<tr>
<td><strong>Channel EQ (high, low)</strong></td>
<td>4kHz and above, 800Hz and below.</td>
<td></td>
</tr>
<tr>
<td><strong>SYNC (IN and OUT) System Linking Circuit</strong></td>
<td>Both jacks accept a balanced input and send a pre-master volume output mix of channels. Recommended use: Linking two PW40BAT(BT) together.</td>
<td></td>
</tr>
<tr>
<td><strong>Phantom Power</strong></td>
<td>+9V</td>
<td>Mic Input</td>
</tr>
<tr>
<td><strong>Power Requirements</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA/Canada</td>
<td>120VAC/60Hz, 80W nominal</td>
<td></td>
</tr>
<tr>
<td>Europe/UK/Australia</td>
<td>230~240VAC/50Hz, 80W nominal</td>
<td></td>
</tr>
<tr>
<td>China</td>
<td>220VAC/50Hz, 80W Nominal</td>
<td></td>
</tr>
<tr>
<td><strong>Speakers</strong></td>
<td>Two 4½“</td>
<td>50W 4 Ohm each</td>
</tr>
<tr>
<td><strong>Horn</strong></td>
<td>One 3½“ piezo driver</td>
<td></td>
</tr>
<tr>
<td><strong>Power Capacity</strong></td>
<td>40W</td>
<td>RMS total system</td>
</tr>
<tr>
<td><strong>Frequency Response system</strong></td>
<td>70HZ-20kHz</td>
<td>92dB 1W-1M nominal</td>
</tr>
<tr>
<td><strong>Nominal Impedance</strong></td>
<td>2x4 Ohms N</td>
<td>ot designed for external speakers</td>
</tr>
<tr>
<td><strong>Dimensions &amp; Weight</strong></td>
<td>mm/kg</td>
<td>180 (width), 525 (height), 190 (depth), 8.5 kg</td>
</tr>
<tr>
<td></td>
<td>Inches/Pounds</td>
<td>7 (width), 20 ¾ (height), 7½ (depth), 18.8 lb</td>
</tr>
<tr>
<td><strong>Stand Mount</strong></td>
<td>1-3/8“</td>
<td></td>
</tr>
</tbody>
</table>
BATTERY REPLACEMENT
The battery will need to be replaced when the unit fails to charge. Carefully follow the installation instructions for battery replacement.

Perform battery replacement in a safe place, away from children.

Remove the four screws in the lower portion of the rear of the cabinet & remove the battery panel. Holding the cabinet securely, carefully tilt it backwards. The battery should slide out of its compartment.

Disconnect the two wires attached to the battery.

Use a soft piece of cloth or paper towel to wipe any remnants of battery discharge from the compartment before installing the new battery. To avoid inflammation of the skin, make sure that none of the battery discharge gets onto your hands or skin. Exercise the utmost caution so that none of the discharge gets near your eyes. Immediately rinse the affected area with running water. If any of the discharge makes contact with eyes or skin, flush immediately and contact your physician.

*Used batteries must be disposed of in compliance with regulations for safe disposal in your region.*

Attach the wires to the new battery accordingly:

Connect the white wire to the positive (+) terminal. Connect the black wire to the negative (-) terminal.

Slide battery into the compartment, being careful not to pinch or damage the wires. Reinstall the battery panel and tighten the four screws.

Charge for twelve (12) full hours before use.