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 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.

All trademarks and registered trademarks mentioned herein are recognized as the property of their respective holders.

1403-10096
According to OSHA, any exposure in the above permissible limits could result in some hearing loss. Individuals vary considerably to noise-induced hearing loss but most will lose some hearing if exposed to intense noise for a sufficient period of 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>LEVEL (dB)</td>
<td>90</td>
<td>93</td>
<td>95</td>
<td>97</td>
<td>100</td>
<td>103</td>
</tr>
</tbody>
</table>

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
10. Only use the attachments/accessories specified by the manufacturer.
11. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

DANGER

Exposure to extremely high noise levels may cause permanent hearing loss. Individuals vary considerably to noise-induced hearing loss but most will lose some hearing if exposed to intense noise for a sufficient period of time.

DANGER


Selon les autorités, toute exposition dans les limites citées ci-dessus, peuvent provoquer certaines pertes d’audition. Des boucles ou protections dans l’appareil auditif ou sur l’oreille doivent être portés 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 supérieures aux limites précitées il est recommandé, afin de se prémunir contre les expositions aux pressions acoustiques élevées potentiellement dangereuses, aux personnes exposées aux équipements capables de délivrer de telles puissances, tels ce système d’amplification en fonctionnement, de protéger l’appareil auditif.

www.AcousticAmplification.com
WHAT SETS THE A20 APART

Your new Acoustic A20 amplifier is designed to sound great with any acoustic instrument or vocals.

We put a lot of thought and effort into selecting exactly the right components and designing a product that will be easy to adjust so you can quickly find the voice of your instrument and project it beyond your personal performance space.

Here are a few of the features that we put into the A20 to make you sound your best –

- 20 watt output, perfect for solo performance, rehearsal, and more
- Two inputs, each with combo XLR-1/4” jacks for use with instruments or vocal microphones
- 1 x 8” co-ax speaker featuring a polypropylene cone with a rubber surround for extended frequency response, combined with a tweeter for chime-like high end clarity
- Shelf-ported cabinet design for extended bass response
- 3-Band EQ for great tonal control
- Digital chorus with adjustable rate
- Digital reverb with adjustable level
- Vari-control feedback elimination
- Full-feature direct output with ground lift, pre-post EQ and level

No matter what your style of playing or choice of acoustic instrument, you will find that your new amp will capture and project the very best of your musical voice.
TAKING CARE OF YOUR NEW AMPLIFIER

LOCATION
• To avoid deformation, discoloration, or more serious damage, do not expose the unit to direct sunlight, high temperature sources, or excessive humidity.

POWER SUPPLY
• Turn the power switch off when the A20 is not in use.
• The AC cable should be unplugged from the AC outlet if the A20 will not be used for an extended period of time.
• Avoid plugging the AC cable into an AC outlet that is also powering high consumption appliances such as electric heaters or televisions.
• Avoid using multi-plug adapters since these can reduce sound quality, cause operation errors, and result in possible damage.
• To avoid damage, turn off the A20 power switch and all related devices prior to connecting or disconnecting cables.

HANDLING AND TRANSPORT
• Never apply excessive force to any parts.
• Unplug cables by gripping plugs firmly. Do not pull on cables.
• Physical shocks caused by dropping or bumping can result in serious damage.

CLEANING
• Clean with a dry, soft cloth.
• A slightly damp cloth may be used to remove stubborn grime and dirt.
• Never use cleaners such as alcohol or thinner.

ELECTRICAL INTERFERENCE
• The A20 contains electronic circuitry that may cause interference if placed too close to radio or television receivers. If this occurs, move the A20 further away from the affected equipment.

SERVICE AND MODIFICATION
• There are no user serviceable parts in the A20.
• Do not attempt to open the A20 or make any change to circuits or parts. This will void the warranty.
FRONT PANEL

1. **INPUTS** - combination ¼” [2 conductor instrument cable] or XLR [3-4 conductor microphone]

2. **VOLUME CONTROLS** - these adjust the overall loudness of the corresponding input. If your acoustic instrument has a preamp, you should set the Volume control on your instrument at about half volume. You can then adjust the amplifier volume to your normal playing level and still have room to increase or decrease your volume as needed from the instrument.

3. **EQUALIZATION**
   - **A. LOW FREQUENCY** - set to boost (15 dB) or cut (-15 dB) frequencies at 100Hz. Controls the lowest fundamental frequencies to enhance the warmth and deep, full tones of your acoustic instrument or vocals.
   - **B. MIDRANGE FREQUENCY** - set to boost (15 dB) or cut (-15 dB) frequencies at 800Hz. Allows you to control the definition and voice of your acoustic instrument or vocals.
   - **C. HIGH FREQUENCY** - set to boost (15 dB) or cut (-15 dB) frequencies at 7kHz. Increasing this will enhance the clarity and brightness of your acoustic instrument or vocals.

4. **FEEDBACK ELIMINATION**
   - **A. FEEDBACK ELIMINATION LEVEL** - this adjusts the amount of feedback filtering. Be sure to set this control to “off” if you are not experiencing any feedback issues.
   - **B. FEEDBACK ELIMINATION FREQUENCY** - this adjusts the frequency of the feedback filtering.

   To control Feedback, do the following:
   1. Set the Level control to “12 o’clock” setting or higher
   2. Turn the Frequency knob, moving from left-to-right, to search for the frequency at which the feedback is to be suppressed.
      - **A. If in the lower register, start at “0” position**
      - **B. Sweep to the right if the frequency is in the higher register**
      - **C. When the feedback is eliminated, reduce the Level control until the feedback returns, then adjust slightly upward until it is gone**

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5. CHORUS  
   A. CHORUS ON / OFF SWITCH – this creates a shimmering, musical tonal effect.  
   B. CHORUS RATE CONTROL – this will speed up the rate of the Chorus effect.

6. REVERB  
   A. REVERB ON / OFF SWITCH – this simulates the natural ambience of reflective soundwaves.  
   B. REVERB LEVEL CONTROL – increasing the level control will intensify the amount of reverb present in your signal.

7. AUX IN – this 1/8" 3-conductor Aux input jack will allow you to plug in a CD, MP3 player or any other stereo source so you can play along. To control the volume of this input, adjust the output volume of the device.

8. HEADPHONE - this 1/8" 3-conductor jack is for plugging in headphones. When used, it will disconnect the internal speaker.

9. POWER – this rocker switch will illuminate with a soft amber color when the amp is turned on and ready to play.
1. **POWER**
   A. **AC LINE IN** – this plug accept a standard CLASS 1 IEC grounded cable (included) to provide AC power to the amplifier.
   B. **VOLTAGE SELECTOR** – used to select the input voltage level to 110/115V or 220/230V. Voltage standards vary by country. This switch is preset at the factory. Setting the power supply voltage switch to the incorrect input voltage could damage the power supply and possibly other parts of your equipment.

2. **DIRECT OUTPUT**
   A. **PRE/POST EQ SWITCH** – this switch determines if your direct output signal will be effected by the front panel equalization settings. In the PRE setting, the direct signal is not effected by the front panel settings; in POST setting, the direct signal is effected by the EQ settings.
   B. **DIRECT OUTPUT LEVEL** – this adjusts the overall level of the direct output.
   C. **DIRECT OUTPUT** – connect a standard XLR balanced cable from this jack to provide a line-level signal to your PA system, powered speaker, or other powered output device.
   D. **GROUND LIFT** – this switch disconnects pin 1 on the XLR jack, which is connected to the shield in the cable and acts as the ground point of the circuit, reducing ground-related noise.

3. **EFFECTS LOOP** – these ¼” unbalanced send and returns allow you to run external effects between the preamp and the power amp, resulting in clearer effects signal, and cleaner levels (line level vs. instrument level). Connect the Send to your effect devices input, and the output from your device to the Return.