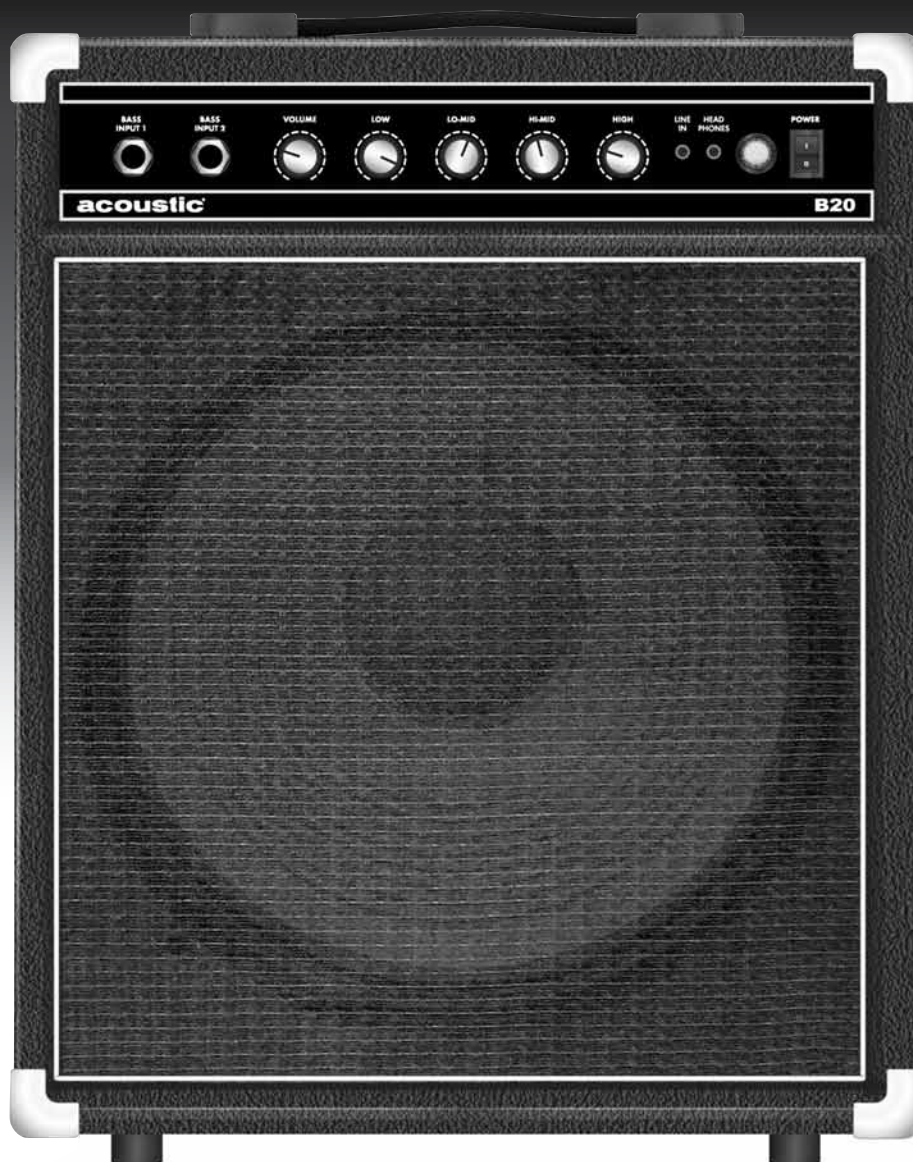


acoustic[®]

B20 USER'S MANUAL

20 WATT BASS GUITAR AMP



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.

Three (3) Year Limited Warranty

Subject to the limitations set forth below, Acoustic® hereby represents and warrants that the components of this product shall be free from defects in workmanship and materials, including implied warranties of merchantability or fitness for a particular purpose, subject to normal use and service, for three (3) years to the original owner from the date of purchase.

Retailer and manufacturer shall not be liable for damages based upon inconvenience, loss of use of product, loss of time, interrupted operation or commercial loss or any other incidental or consequential damages including but not limited to lost profits, downtime, goodwill, damage to or replacement of equipment and property, and any costs of recovering, reprogramming, or reproducing any program or data stored in equipment that is used with Acoustic® products. This guarantee gives you specific legal rights. You may have other legal rights which vary from state to state. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Acoustic
P.O. Box 5111
Thousand Oaks, CA 91359-5111

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0807-8010

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IMPORTANT SAFETY INSTRUCTIONS

EXPOSURE TO HIGH NOISE LEVELS MAY CAUSE PERMANENT HEARING LOSS. INDIVIDUALS VARY CONSIDERABLY TO NOISE-INDUCED HEARING LOSS BUT NEARLY EVERYONE WILL LOSE SOME HEARING IF EXPOSED TO SUFFICIENTLY INTENSE NOISE OVER 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	1/2hr. or less
SOUND LEVEL (dB)	90	93	95	97	100	103	110

**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.

According to OSHA, any exposure in the above permissible limits could result in some hearing loss. Hearing protection must be worn when operating this amplification system in order to prevent permanent hearing loss.



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



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. OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL NOT BE PLACED ON THE APPARATUS.

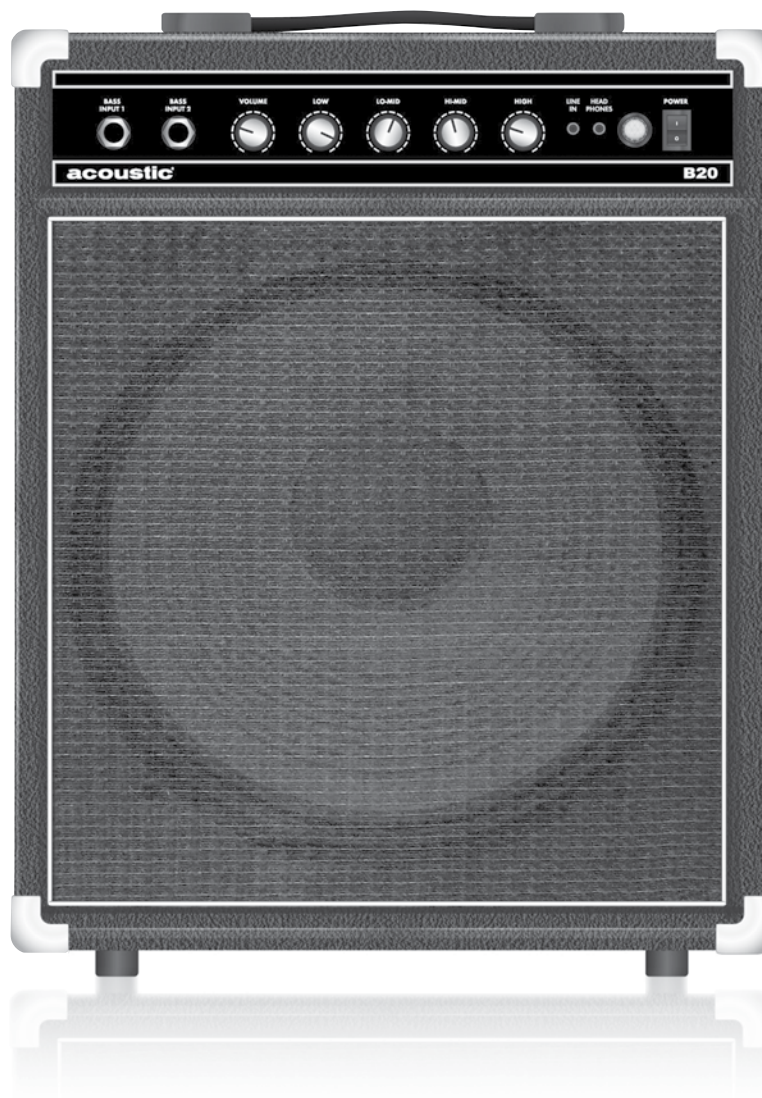
1. Read all safety and operating instructions before using this product.
2. All safety and operating instructions should be kept for future reference.
3. Read and understand all warnings listed on the operating instructions.
4. Follow all operating instructions to operate this product.
5. This product 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, stoves or other apparatus (including 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 from 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, exercise caution when moving.
13. Unplug this apparatus during lightning storms or when unused for a long period 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.
16. **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
17. When a mains plug is used as the disconnect device, the disconnect device shall remain readily operable.



CONGRATULATIONS

Congratulations on your purchase of the B20 amplifier. Founded as the **Acoustic Control Corporation** in Van Nuys, California in 1969, **Acoustic** has been the rig of choice for many legendary touring professionals. **Acoustic** amp users include some of music's premier rock, jazz and funk bassists — and many of the original **Acoustic** rigs are still cranking out massive tone on stages world wide.

Now you own a piece of the **Acoustic** legacy — so turn it up and enjoy what pros have known about for years. Welcome to **Acoustic**, the Pro's Tone™.

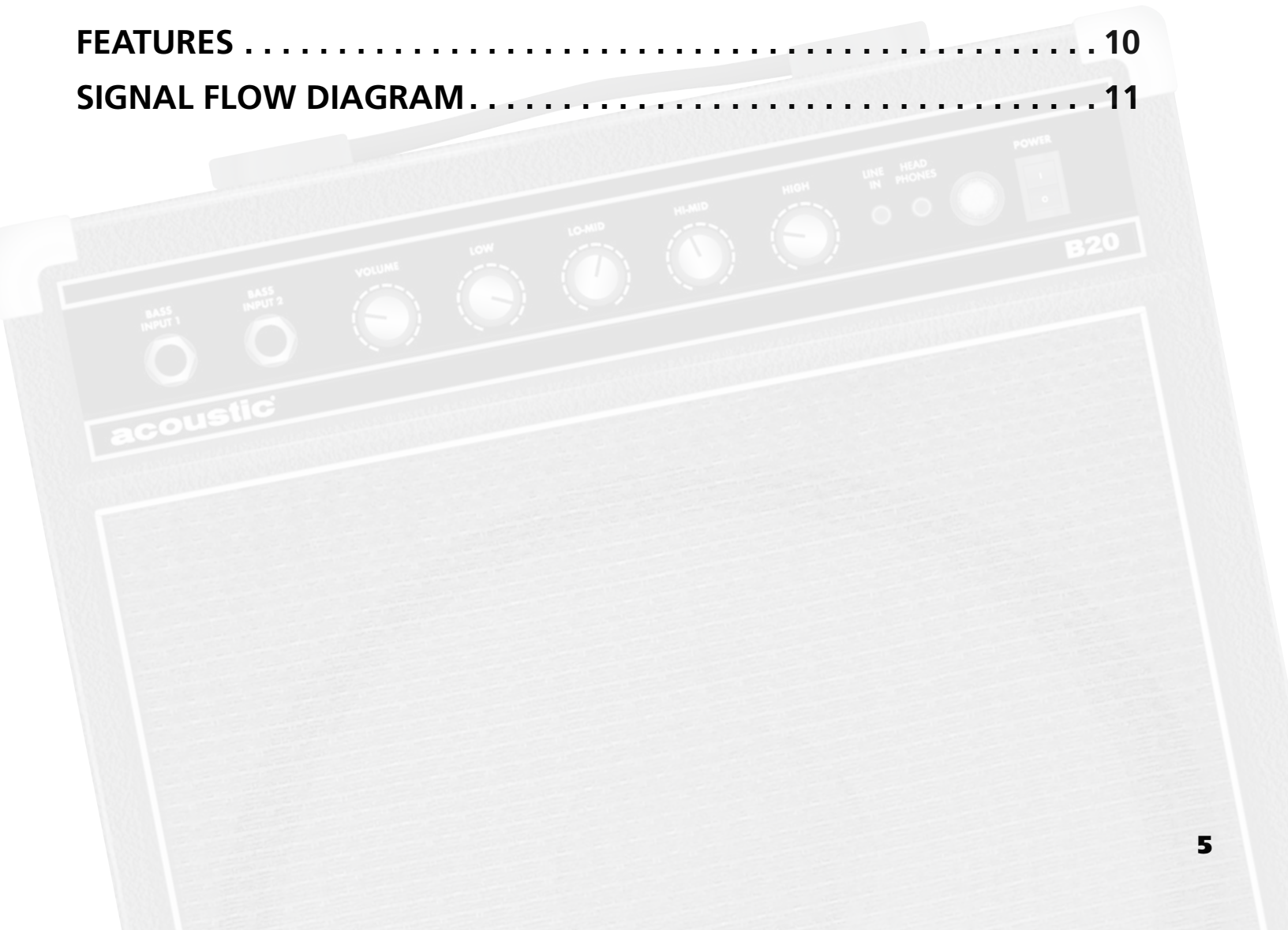


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TAKING CARE OF YOUR BASS AMPLIFIER

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 B20 is not in use.
- The AC adapter should be unplugged from the AC outlet if the B20 will not be used for an extended period of time.
- Avoid plugging the AC adapter into an AC outlet that is also powering high-consumption appliances such as electric heaters or televisions. Also 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 B20 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 B20 contains electronic circuitry that may cause interference if placed too close to radio or television receivers. If this occurs, move the B20 further away from the affected equipment.

SERVICE AND MODIFICATION

- There are no user serviceable parts in the B20.
- Do not attempt to open the B20 or make any change to circuits or parts. This will void the warranty.

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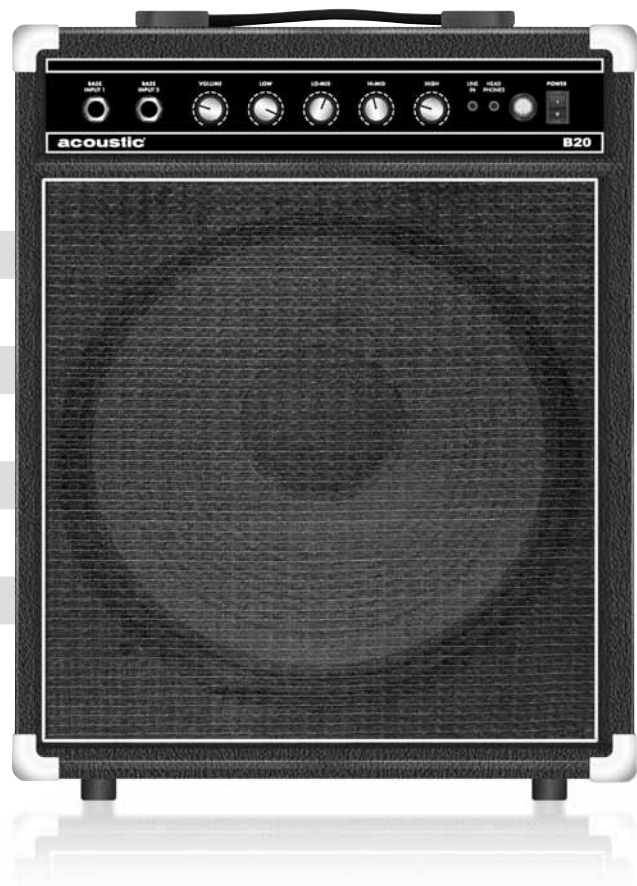
OUR MISSION

The **Acoustic** design philosophy is simple. It's simple to operate, simple to maintain, and its Fast-Tone™ technology allows you to dial up great sound in an instant. This way of thinking is part of every amp we make. That's why many legendary bassists have used **Acoustic** to develop their trademark sounds.

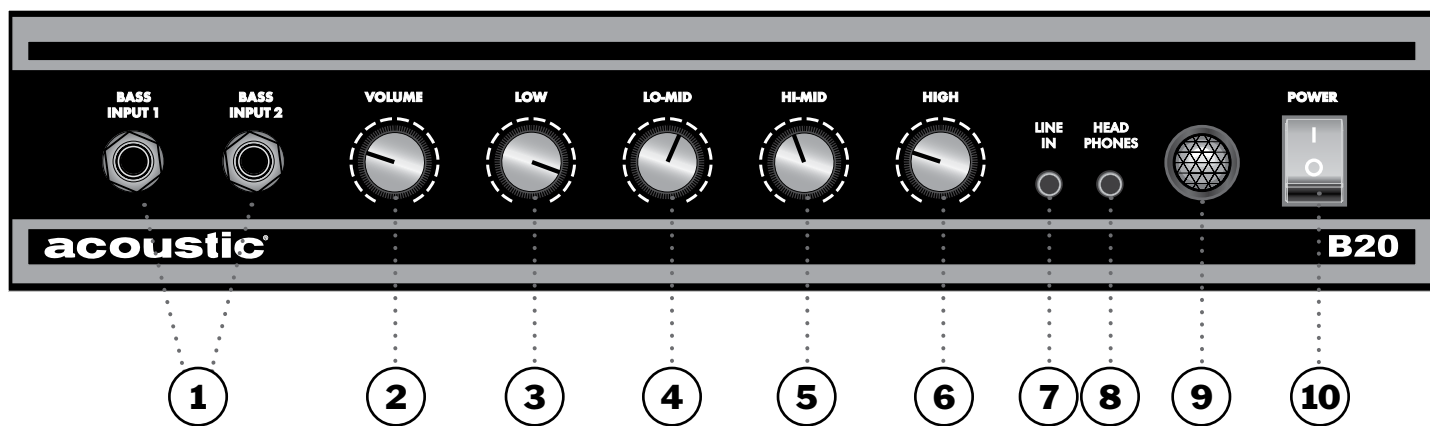
If you're new to **Acoustic** amps, we encourage you to get in tune with its rich heritage and join the long line of **Acoustic** users and endorsers who would never consider playing through anything else.

AMP SPECIFICATIONS

MODEL:	B20
POWER:	20 Watts
EQUALIZER:	4 Band EQ
CHANNELS:	1
SPEAKER:	12"
DIMENSIONS:	13" x 15.76" x 10"
WEIGHT:	31.5 lb.



PANEL CONFIGURATION



FRONT PANEL

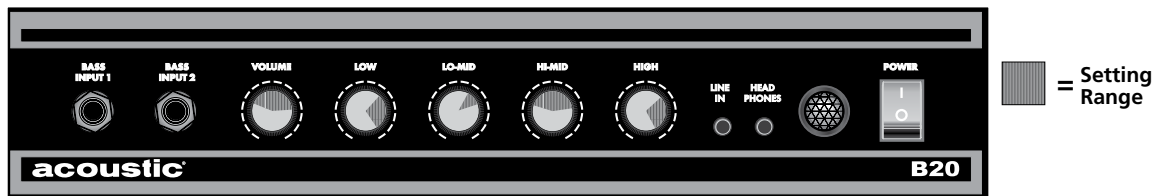
1. 1/4" 2-conductor, dual bass guitar inputs.
2. Output volume level control. If you are using a bass guitar with an on-board preamp, set its level to mid position before increasing this control otherwise distortion may occur.
3. Active low frequency control set to boost (14 dB) or cut (-14 dB) frequencies at 60 Hz. Controls the lowest fundamental frequencies to enhance warmth and deep, full tones.
4. Low-midrange frequency control set to boost (12 dB) or cut (-12 dB) frequencies at 340 Hz. Allows you to add thickness and body to your bass tones.
5. High-midrange control set to boost (10 dB) or cut (-10 dB) frequencies at 2 kHz. Increasing this will add punch to your bass guitar's sound.
6. A high frequency control set to boost (15 dB) or cut (-15 dB) frequencies at 10 kHz. Adds or subtracts the high-end attack of slap-styles or picking.
7. This 3-conductor 1/8" media input jack will allow you to plug in a CD, MP3 player or any other source so you can practice along. To control the volume of the source, adjust the output volume of the device. We suggest you turn the volume all the way down then plug in and adjust the volume according to your taste.
8. 1/8" 3-conductor jack for plugging in headphones. When used, it will disconnect the internal speaker.
9. When this jewel light is lit, your amp is on and ready to be played.
10. Power switch.

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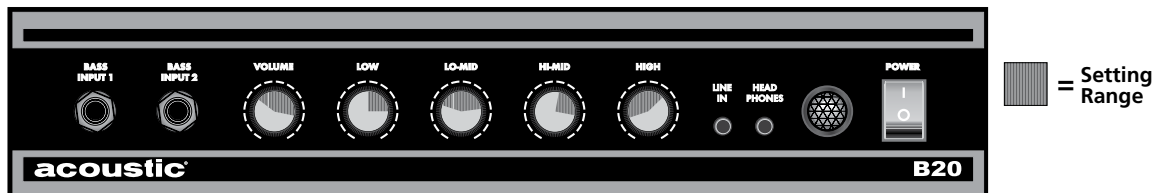
20 WATT BASS GUITAR AMP

SUGGESTED TONE SETTINGS

The following setting suggestions will help you find your signature tone. They are designed to get you close to the sound you are looking for. You take it from there.



TRADITIONAL ELECTRIC BASS SETTING - In this setting, the amplifier will deliver a standard electric bass sound. Whether you are playing rock, country, blues or gospel, this setting will get you close. If you play with a pick and want less top end attack on the notes, roll off a bit of the high frequency control. If it's a deeper bottom you're looking for, add more low and low-midrange frequencies. The key to achieving your own personal sound is experimentation.

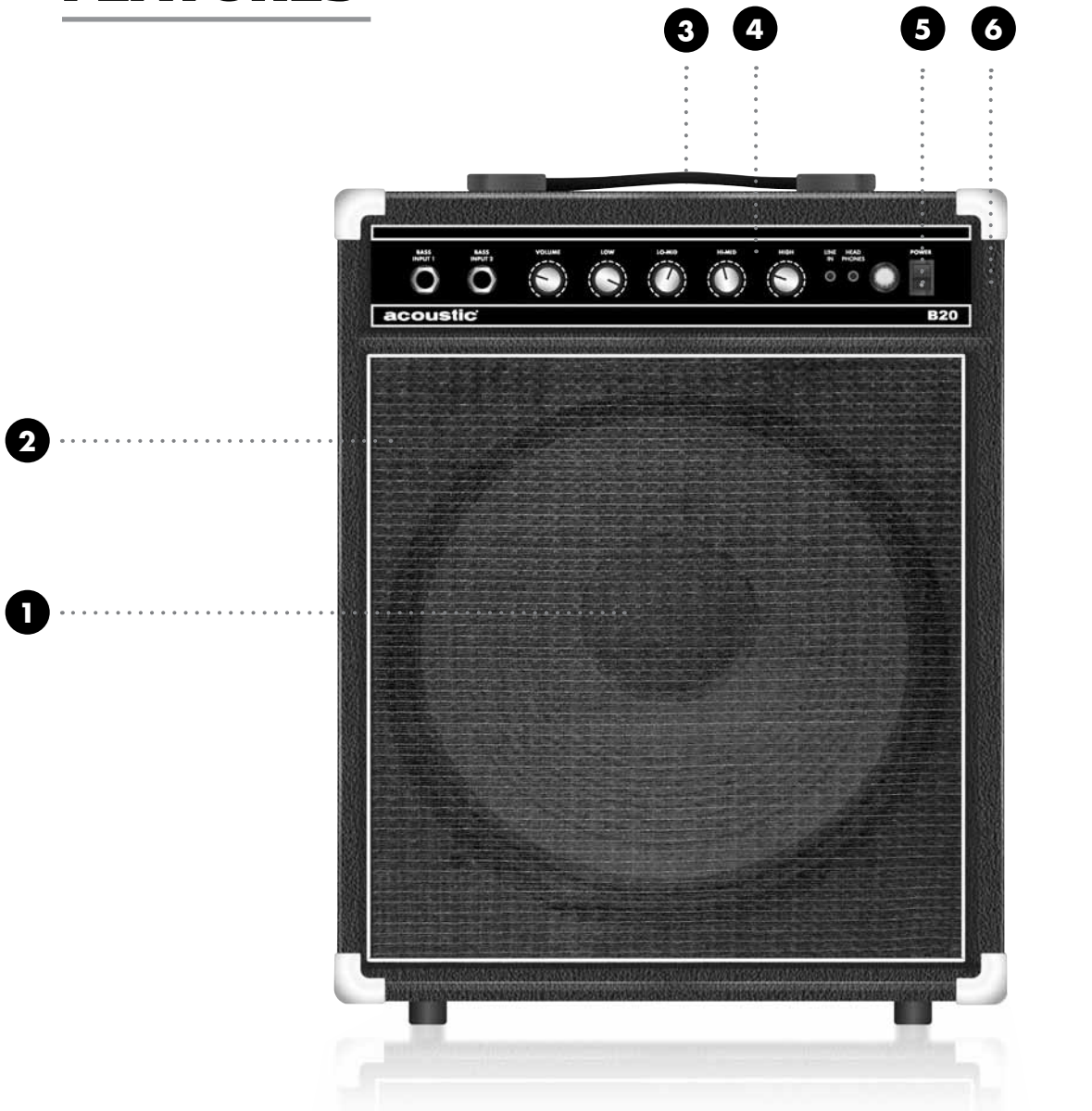


FUNK "SLAP" SOUNDS - This style of music needs a strong attack with lots of top end. Usually a hollowed out middle will produce the extra top end necessary for this style of music. If you are using a "thumb" style, add a bit more low end and extra volume — or less if you really hit it hard. Even though this is a practice or rehearsal level amplifier, it will deliver the punch and clarity that you require.



ALTERNATIVE STYLE - This setting is designed for an upper end punch and edge that will cut through most any sound. This style will work well with pick or fingers and will add a touch of distortion to the sound as well. Make sure your instrument's volume control is up all the way. Since you are adding volume, you need to be careful with the actual amount of E.Q. you use as it can also add distortion to the sound. As in all the settings above, it is strictly a matter of personal taste in achieving the sound you are looking for, so experiment.

FEATURES

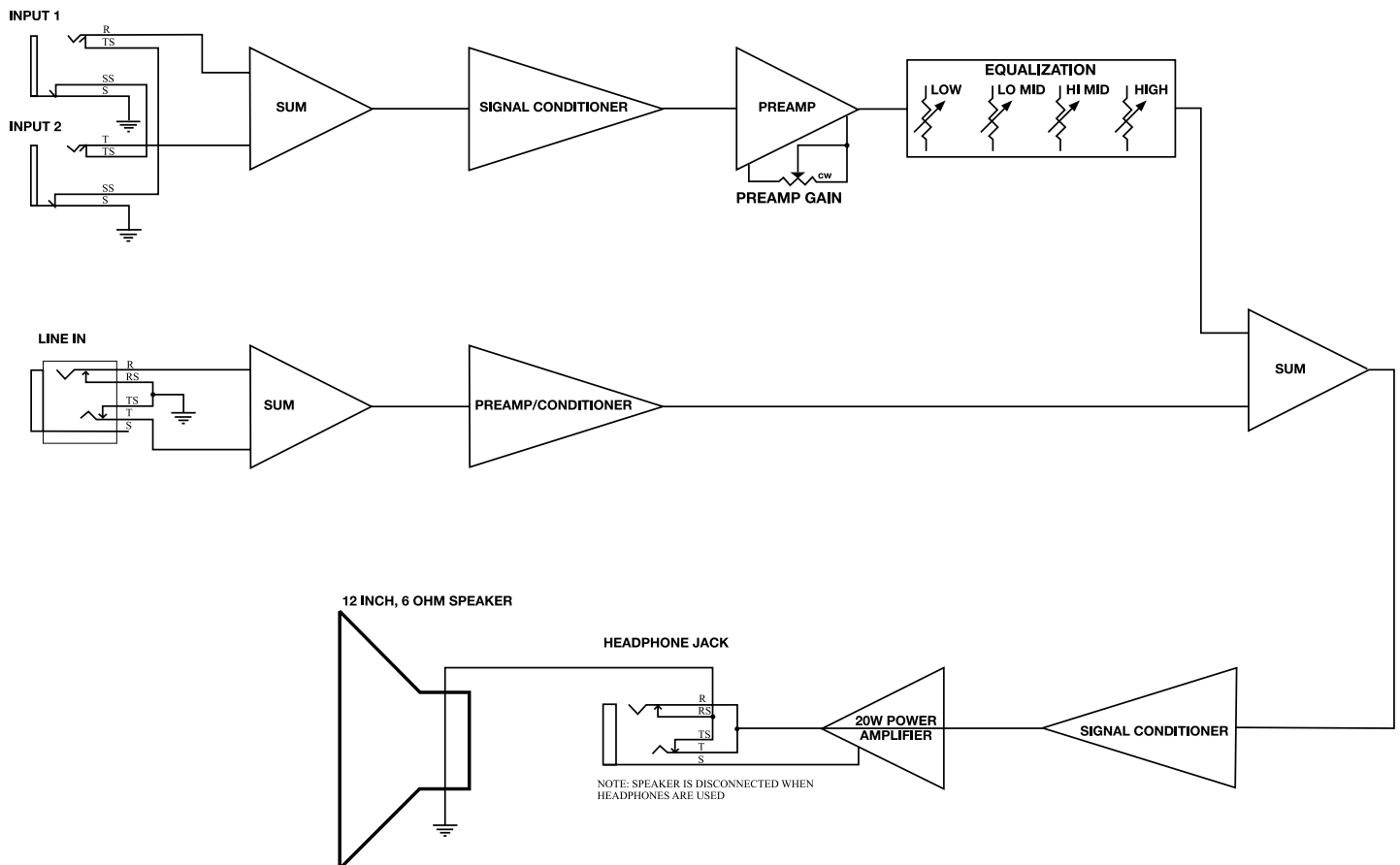


- 1** Heavy-Weight Cloth Grill
- 2** Heavy-Duty Woofer for Enhanced Bass Response
- 3** Rugged & Comfortable Handle
- 4** Easy to Read Control Panel
- 5** Power Switch
- 6** Protective, Long-Lasting Cover

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SIGNAL FLOW DIAGRAM



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