

SAFETY INFORMATION

- Read all documentation before operating your equipment. Retain all documentation for future reference.
- Save the carton and packing material even if the equipment has arrived in good condition. Should you ever need to ship the unit, use only the original factory packing.
- Do not spill water or other liquids into or on the unit.
- Make sure power outlets conform to the power requirements listed on the back of the unit.
- Do not use the unit if the electrical power cord is frayed or broken.
- Always operate the unit with the AC ground wire connected to the electrical system ground.
- Have gain controls on amplifiers turned down during power-up to prevent speaker damage if there are high signal levels at the inputs.
- Do not connect the inputs / outputs of amplifiers or consoles to any other voltage source, such as a battery, mains source, or power supply, regardless of whether the amplifier or console is turned on or off.
- Power down & disconnect units from mains voltage before making connections.
- Do not use the unit near stoves, heat registers, radiators, or other heat producing devices.
- Do not block fan intake or exhaust ports. Do not operate equipment on a surface or in an environment which may distort the normal flow of air around the unit. If the unit is used in an extremely dusty or smoky environment, the unit should be periodically "blown free" of dust.
- Do not remove the cover. Removing the cover will expose you to potentially dangerous voltages.
- Do not drive the inputs with a signal level greater than that required to drive equipment to full output.
- Do not run the output of any amplifier back into another input.
- Do not ground the red output terminal, never connect a red output terminal to another red output terminal.
- In case of mal-function this device should be serviced by qualified service personnel only.

SB-160



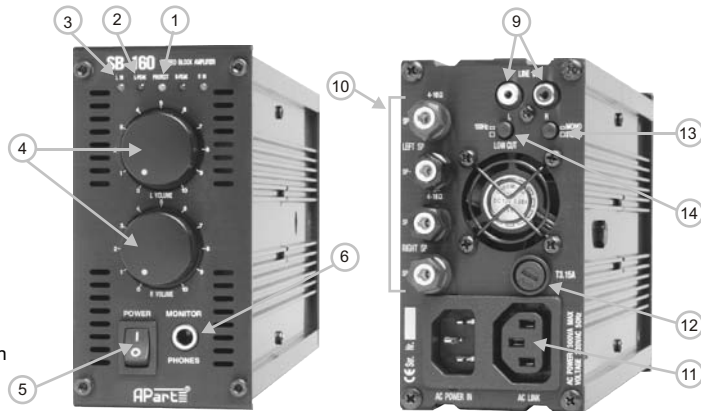
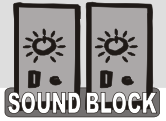
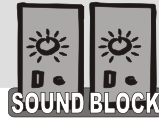


CAUTION

TO REDUCE THE RISK OF ELECTRIC SHOCK
DO NOT REMOVE COVER OR BACK
NO USER-SERVICEABLE PARTS INSIDE
SERVICING ONLY FOR QUALIFIED PERSONNEL



OWNER'S MANUAL



1. Protection Led:

The Protection Led illuminates RED when the amplifier is overheated or when a shorted load or DC is detected on the amplifier output. The amplifier shall reset itself when the problem is solved.

2. Signal LED indicator L & R

These LED's will light up green when the input detects audio signal.

3. Peak LED/limiter L & R

These red LED's illuminates if the input signal of the amplifier is to high. Occasional blinking of these LED's is acceptable, but if it remains (on) or more than intermittently, then you should lower the input level or reduce the output level of the preceding component to avoid audible distortion. A built-in limiter will prevent excessive RMS clipping. Remove Jp4 (Left channel) and Jp3 (Right channel) to de-activate this limiter function. Please contact a qualified technician.

4. Level control L & R

These volume knobs are used to adjust the level of the outputs to the speakers.

5. Power switch

switch to 'ON' position to turn power on, and to 'OFF' to turn power off.

6. Monitor Jack

A stereo headphone can be inserted to this Jack for monitoring the amplifier output.

9. Unbalanced input cinch L & R

Cinch-RCA connectors for applying the input signal for the left and right channel.

10. Speaker output terminals connecting the speaker system

The minimum load is 4 ohms per channel. of course, higher loads are acceptable. 4 ohm=min. 4 pcs. of 16 ohm speakers wired in parallel or max. 2 pcs. of 8 ohm speakers wired in parallel. Please note that 2 pcs. of 6 ohm speakers wired in parallel are NOT allowed.

11. AC outlet un-switched)/AC input

Use AC cord connect to the AC input to a AC socket. Use the AC outlet to power other modules (with the MB-AC link cable) or to other associated equipment. AC voltage is always present as long as the amplifier is connected to the AC voltage source.

12. AC fuse

If the fuse is blown, please disconnect the power cord, and replace fuse by the same value 3.15 AT of the SLOW BLOW type. If the fuse blows again, then contact your dealer for further servicing.

13. Mono - Stereo switch

Mono Stereo switch for the input signal.

14. Low cut filter

Switches on a high pass filter of 100Hz. This features can be used for driving small or horn speakers.

SPECIAL FEATURES



• If 'Hum' or Buzz' occurs when connecting different inputs, then this is often caused by 'GROUND or EARTH LOOPS'. Inside you can disconnect Jp5 to break this ground loop. Please contact a qualified technician to do this.



• A built-in limiter will prevent excessive RMS clipping. Remove Jp4 (Left channel) and Jp3 (Right channel) to de-activate this limiter function.



• The turning speed of the cooling fan is related to the temperature of the amplifier. When the amplifier is cold it's normal that the fan doesn't turn. Only if a lot of output-power is requested the fan will turn.

SPECIFICATIONS

Technical specifications	SBR160
Power Rated / Max	
2 ohm	NOT ALLOWED
4 ohm	2 X 80 / 120 Watt
8 ohm	2 X 60 / 90 Watt
Input Sensitivity	0.775 Vrms/MAX input level +14dBV
Input impedance	20 Kohm
Freq. Response	15hz - 30KHz
Total harm. distortion	<0.03%
Damping factor	(4 ohm) >400
Power consumption	300 VA MAX
Dimensions (H x W x D):	70 X 140 X 335 MM
Weight	Net. 2.8 Kg

• Due to the built-in limiter, some values may differ from the specs listed above. Due to our continuous research and development, the product specifications may change without prior notice at any time.