

On your purchase of a Pyramid Signature Series amplifier. This amplifier extends the pyramid tradition into a totally new series of amps, designed from the ground up to deliver the power, performance and flexibility the modern car audio enthusiast demands.

When you check the list of features offered by the PB744,PB844 and PB1644, you'll know you made the right choice with a Pyramid Power amplifier.

# precautions

Do not operate the amplifier when it is unmounted, Attach all audio system components securely within the automobile to prevent damage, especially in an accident.

Do not mount this amplifier so that the wire connections are unprotected, or in a pinched condition, or likely to be damaged by nearby objects.

Before making or breaking power connections in your system, disconnect the vehicle battery. Confirm that your head unit or other equipment is turned off while connecting the input jacks and speaker terminals.

If you need to replace the power fuse, do so only with a fuse identical to that supplied with the amplifier. Using a fuse of a different type or rating may result in damage that isn't covered in the manufacturer's warranty.

### notes



# protection circuitry

The built-in protection circuitry in the Pyramid Signature amplifiers will disable the amplifier if it senses an input overload, a speaker short circuit, or extreme temperature conditions.

When the protection circuit is activated by any of these conditions, the Protection LED will be illuminated.

If this occurs ,carefully inspect the system to determine the source of the problem.

If the shutdown was a result of a thermal overload condition, allow the amplifier to cool down before attempting to restart it.

If the shutdown was a result of an input overload, or speaker short circuit, be sure to corr the condition before restarting.

The amplifier can be restarted by turning the remote power OFF and then ON again.

#### No output.

Confirm that all terminal strip connections are secure and tight. Check both in-line and built-in fuses. Both the +12V and the Remote terminals must have +12V referenced to chassis ground.

Confirm that the audio signal source(car radio, equalizer, etc.) Is connected and is supplying output signal. To check if the amp is supplying signal, unplug the cables from the signal source(but leave them plugged into the amp). Briefly tap the center pin of each of the disconnected RCA plugs with your finger. This should produce a noise)feedback) in your speakers.

troubleshooting

#### Only one channel works.

Confirm that all terminal strip connections are secure and tight.

Check the Balance control on the head unit(or other source) to veri is set to its midpoint. If you are using the Low Level RCA input, reverse the input plugs at the

If you are using the Low Level RCA input , reverse the input plugs at the amplifier(i.e., switch the L with the R). If the channels which is silent switches to the other side, the problem is either in the head unit/other source or the connecting cables.

#### Weak output.

Readjust the Input Level Control(s) to better suit the input signal.

#### Noise in the audio.

If the noise is a "whine" whose pitch follows the engine speed, confirm that the amplifier and any other signal sources(hesd unit, etc.) Are properly ground. If the noise is a "clicking" or "popping" noise whose rate follows the engine speed, this usually means that the vehicle is equipped with resistor spark plugs and wires, or that the ignition is in need of service.

Check the routing of the speaker and input wires to make sure they are not adjacent to wire which interconnect lights and other accessories. If the above steps fail to improve or clear noise interference, the system should be checked by a professional mobile audio installer.

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### PB744

#### **High Performance 1000Watt 2 channel Bridgeable MOSFET Amplifier**

- 500 Watts×2 Output
- 1000 Watts×1 Bridged Output
- Variable Hi/Lo Electronic Crossover Network
- Variable Bass Boost(0-+18dB@60Hz)
- · Variable Input Level(Gain)Control
- Remote Turn on/Off
- RCA Inputs
- MultiFuntion VFD
- Power ON LED Indicator
- LED Protection Indicator
- S/N Ratio >95dB
- THD :<0.04%
- Thermal Protection
- Overload Protection
- Short Circuit Protection
- Anti-Thump Turn-On

## **PB844**

### High Performance 1600Watt 4 channel High Performance 4000Watt 4 channel **Bridgeable MOSFET Amplifier**

400 Watts×4 Output

- 800 Watts × 2 Bridged Output (400W × 2+800W × 1)
- Variable Hi/Lo Electronic Crossover Network
- Variable Bass Boost(0-+18dB@60Hz)
- · Variable Input Level(Gain)Control
- Remote Turn on/Off
- RCA Inputs
- MultiFunction VFD
- · Power ON LED Indicator
- LED Protection Indicator
- S/N Ratio >95dB
- THD :<0.04%
- Thermal Protection
- Overload Protection
- Short Circuit Protection
- Anti-Thump Turn-On

### PB1644

general features

### **Bridgeable MOSFET Amplifier**

- 1000 Watts×4 Output
- 2000 Watts× 2 Bridged Output (100W×2+2000W×1)
- Variable Hi/Lo Electronic Crossover Network
- Variable Bass Boost(0-+18dB@60Hz)
- · Variable Input Level(Gain)Control
- Remote Turn on/Off
- RCA Inputs
- MultiFuntion VFD
- Power ON LED Indicator
- LED Protection Indicator
- S/N Ratio: >95dB
- THD :<0.04%
- Thermal Protection
- Overload Protection
- Short Circuit Protection
- Anti-Thump Turn-On

mounting and installation

Your new Pyramid Signature Series amplifier comes complete with required mounting hardware. When determining a suitable location in your vehicle for the amp, please remember that it is a highpower electronic device capable of generating high heat.

For this reason, always choose a location in your vehicle which has low vibration, adequate ventilation, a minimum of dust, and no moisture. Be sure to mount the ampin such a manner as to allow reasonable airflow over the cooling fins.

Mark the location for the mounting screw holes by positioning the amp where you wish to install it and use a scribe (or one of the mounting screws) inserted in each of the mounting holes to mark the mounting surface for the mounting surface. If the mounting surface is carpeted, measure the hole centers and mark with a felt tip pen.

Before attempting to drill the mounting holes, take note of any wires, lines or otherdevices in your vehicle which may be located behind the mounting surface! Then drill pilot holes in the mounting surface for the mounting screws and insert them. Tighten the screws securely.

### When making electrical connections to your amplifier, please observe the following: Use at least 8 gauge wire for power and ground connections.

Wire the amplifier directly to the car battery.

For the ground connection, use the shortest possible wire to a good chassis ground point. Wire the Remote connection to the auto start lead of your head unit, equalizer or power antenna.

#### About power fuses:

Pyramid Signature Series amplifiers feature built-in fuse systems. These fuses protect both the amplifier and the electrical system in your vehicle from fault conditions. If you ever need to replace the fuse in your Pyramid Signature Series amp, use a fuse of exactly the same type and rating. A different type or rating of fuse may result in damage or fire.





P	feature 2	es and spec <b>ch amp</b>	cifications <b>PB744</b>
crossover mode selector	when used with normal, full range systems, set this switch to "FULL". If	output power@14.4v DC, 1KHz	
	you wish the internal crossover to power a driver of specific frequency range, use the "LOWPASS" or "HIGHPASS" settings.	RMS Power @ 4 ohms	50Watts×2
		RMS Power @ 2 ohms	100Watts×2
input level control	use this control to match the outputs of you head unit to the amplifier. Starting with your head unit set at about the 2 o'clock position, increase	Maximun Power Output	250Watts×2
	the amp level control until distortion begins to occur, and reduce slightly from this point.	frequency response	10Hz-70KHz
	•	input impedance	
low pass frequency control	when the crossover selector switch is in "low pass" mode, this control sets the upper frequency limit for audio program sent to the speakers.	low level inputs	10K Ohms
		high level inputs	100 Ohms
high pass frequency control	when the crossover selector switch is in "high pass" mode, this control sets the upper frequency limit for audio program sent to the speakers.	input sensitivity	
bass boost level control	this control permits adjustment of the bass level up to an increase of approximately 18 dB.	low level inputs	200 mV
low level inputs	this amp features gold-plate RCA input jacks for high impedance input. Use these with car stereo output which uses RCA-type connector cables.	power supply voltage	14.4V DC Neg.Ground (10.5-16V)
remote bass boost	Plug in the Remote Bass Control wire in here.		
power LED	this indicator is illuminated when power is applied.	matching speaker impedance <b>stereo mode</b>	2-4 Ohms
protection LED	this indicator is illuminated when built-in protection circuitry is activated.	bridged mode	4-8 Ohms
power fuse	the fuse protects the amplifier and your car's electrical system from short circuit conditions.	maximum current draw	15A×2
a construction for a la		dimensions(W $\times$ H $\times$ L)	
power terminals	use these connectors to deliver power, ground and remote turn-on control to the amplifier.	mm	292×48×251
speaker connections	these terminals are 14K gold plated to guarantee high conductivity and minimum signal loss.	inches	11.7×1.92×10.0







	features a 40	and specif C <b>h amp</b>	fications <b>PB84</b> 4	ŀ
crossover mode selector	when used with normal, full range systems, set this switch to "FULL". If you wish the internal crossover to power a driver of specific frequency range, use the "LOWPASS" or "HIGHPASS" settings.	output power@14.4v DC, 1KHz RMS Power @ 4 ohms	75Watts×4	
low pass frequency control	when the crossover selector switch is in "low pass" mode, this control sets the upper frequency limit for audio program sent to the speakers.	RMS Power @ 2 ohms Maximum Power Output	180Watts×4 250Watts×4	
high pass frequency control	when the crossover selector switch is in "high pass" mode, this control sets the upper frequency limit for audio program sent to the speakers.	frequency response input impedance	10Hz-70KHz	
input level control B844	use this control to match the outputs of you head unit to the amplifier. Starting with your head unit set at about the 2 o'clock position, increase the amp level control until distortion begins to occur, and reduce slightly from this point.	low level inputs high level inputs	10K Ohms 100 Ohms	
low level inputs	this amp features gold-plate RCA input jacks for high impedance input. Use these with car stereo output which uses RCA-type connector cables.	input sensitivity Iow level inputs	200mV	6
high level inputs bass boost level control	if your car stereo lacks RCA-type output jacks, you may connect speaker output leads to these input connectors. this control permits adjustment of the bass level up to an increase of approximately 18 dB.	power supply voltage	14.4V DC Neg.Ground (10.5-1	16V)
power LED	this indicator is illuminated when power is applied.	matching speaker impedance stereo mode	2-4 Ohms	
protection LED	this indicator is illuminated when built-in protection circuitry is activated.	bridged mode	4-8 Ohms	
power fuse	the fuse protects the amplifier and your car's electrical system from short circuit conditions.	maximum current draw	25A×2	
power terminals	use these connectors to deliver power, ground and remote turn-on control to the amplifier.	dimensions(W×H×L) mm	292×48× <b>360</b>	
speaker connections	these terminals are 14K gold plated to guarantee high conductivity and minimum signal loss.	inches	11.7×1.92× <b>14.5</b>	





#### **Bridged Mono Output Mode**





	features a <b>4ch</b>	and speci	fications
	401	ampri	D1044
crossover mode selector	when used with normal, full range systems, set this switch to "FULL". If you wish the internal crossover to power a driver of specific frequency range, use the "LOWPASS" or "HIGHPASS" settings.	output power@14.4v DC, 1KHz RMS Power @ 4 ohms	100Watts×4
		RMS Power @ 2 ohms	200Watts×2
low pass frequency control	when the crossover selector switch is in "low pass" mode, this control sets the upper frequency limit for audio program sent to the speakers.	Maximum Power Output	500Watts×4
high pass frequency control	when the crossover selector switch is in "high pass" mode, this control sets the upper frequency limit for audio program sent to the speakers.	frequency response	10Hz-70KHz
		input impedance	
input level control	use this control to match the outputs of you head unit to the amplifier.	low level inputs	10K Ohms
01644	Starting with your head unit set at about the 2 o'clock position, increase the amp level control until distortion begins to occur, and reduce slightly from this point.	high level inputs	100 Ohms
D1044		input sensitivity	
low level inputs	this amp features gold-plate RCA input jacks for high impedance input. Use these with car stereo output which uses RCA-type connector cables.	low level inputs	200mV 8
high level inputs	if your car stereo lacks RCA-type output jacks, you may connect speaker output leads to these input connectors.	power supply voltage	14.4V DC Neg.Ground (10.5-16V)
bass boost level control	this control permits adjustment of the bass level up to an increase of approximately 18 dB.		14.44 DC Neg. Ground (10.3-104)
power LED	this indicator is illuminated when power is applied.	matching speaker impedance stereo mode	2-4 Ohms
protection LED	this indicator is illuminated when built-in protection circuitry is activated.	bridged mode	4-8 Ohms
power fuse	the fuse protects the amplifier and your car's electrical system from short	maximum current draw	80A
	circuit conditions.	dimensions(W×H×L)	
power terminals	use these connectors to deliver power, ground and remote turn-on control to the amplifier.	mm	222×48×450
speaker connections	these terminals are 14K gold plated to guarantee high conductivity and minimum signal loss.	inches	8.88×1. 92×18.1

PI











to remote turn-on +12V





same time!

