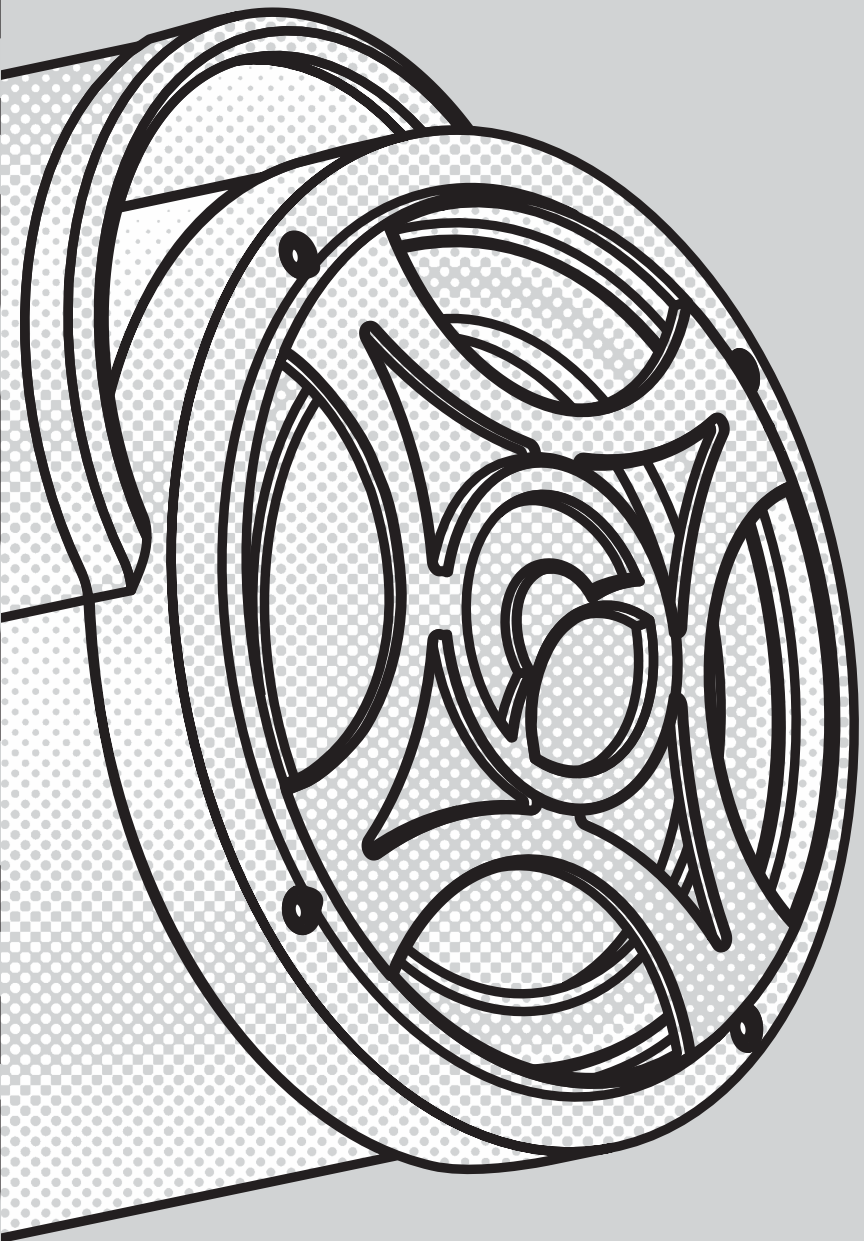


MODELS INCLUDED IN THIS MANUAL:
EL604/608, EL804/808, EL104/108, EL6A-hp, EL8A-hp, EL10A-hp,
RS604DV/608DV, RS804DV/808DV, RS104DV/108DV, RS6A-hp,
RS8A-hp, RS10A-hp, SM804, SM104, SM8A, SM10A, SM8A-hp,
SM10A-hp, CS8A5



BAZZOOKA

Installation Manual

PLACE
STAMP
HERE



SOUTHERN AUDIO SERVICES, INC.
15049 FLORIDA BLVD.
BATON ROUGE, LA 70819

Dear Friend,

Thank you for selecting Bazooka® subwoofer speaker systems for your car stereo system. Today, the Bazooka represents Bazooka Mobile Audio's continued commitment to efficiency and design. An innovative manufacturing process developed by SAS for the Bazooka provides consumers with state-of-the-art speaker system design.

At SAS, we take pride in manufacturing the most revolutionary bass speaker systems ever created, featuring our patented Bass Tubes® enclosure design, and we hope you will take pride in owning them.

Several years ago, we realized that efficiency was the wave of the future in Autosound, so we made a commitment to design, manufacture, and deliver the most efficient speaker systems possible.

Today we market our patented speaker systems worldwide and the high quality of the Bazooka brand is well respected by consumers and dealers of all nationalities.

When properly installed, Bazooka subwoofer speaker systems will give you years of clean uninterrupted sound reproduction. Therefore, I urge you to take a few minutes of your time to review this instruction booklet. It was designed to give you a better understanding of our products and to explain how to apply them properly.

Thank you again for choosing Bazookas. Our early commitment to quality has made them the product of choice, and I am sure you will agree that you have made the right one! Enjoy!

Sincerely,



JON C. JORDAN
President
SAS/BAZOOKA

CONTENTS

HELPFUL HINTS BEFORE YOU BEGIN	PG 2
VEHICLE PLACEMENT RECOMMENDATIONS	PG 3
BOAT PLACEMENT RECOMMENDATIONS	PG 4
MOUNTING THE BAZOOKA	PG 5-7
WIRING DIAGRAMS	PG 8-10
SPECIFICATIONS	PG 11-12
FEATURES	PG 13-14
WIRING	PG 15-21
TROUBLESHOOTING	PG 22-23
WARRANTY	PG 24-26

HELPFUL HINTS—BEFORE YOU BEGIN

Please take time to read through this manual and plan out your installation before you begin!

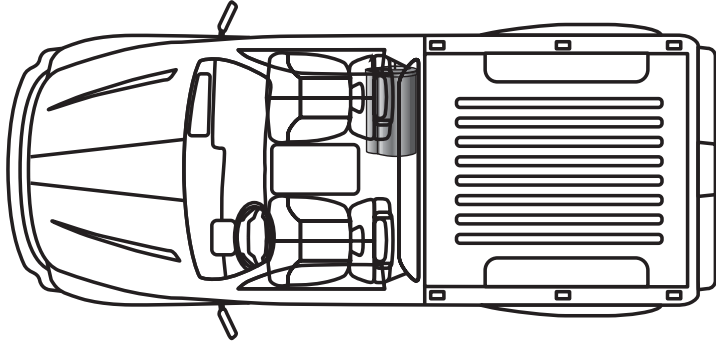
Locate an area in the rear of the vehicle where you would like to place the Bazooka speaker systems. The location you have selected must meet the following requirements in order for the Bazooka to be properly installed in the vehicle:

- 1) The woofer (grill end) should be facing into a corner. (See vehicle placement recommendations on pg. 3)
- 2) Ideally, there should be 2 to 4 inches between the woofer and the corner it is pointing into.
- 3) The mounting area should be carefully checked to be sure that the mounting screws will not damage the gas tank, electrical wiring, fuel lines, or the spare tire during the mounting of the strap bases.
- 4) The strap mounting bases should be screwed securely to a rigid surface that is part of, or anchored to, the structure of the vehicle.

VEHICLE PLACEMENT RECOMMENDATIONS

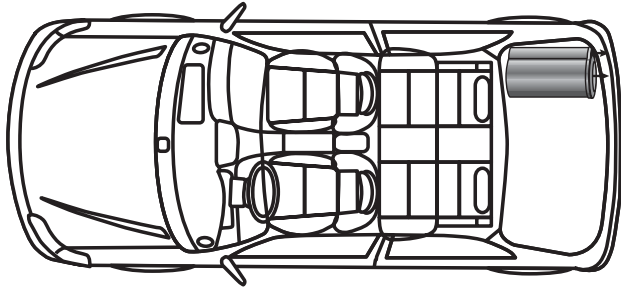
TRUCK INSTALLATION

tube size is exaggerated for emphasis



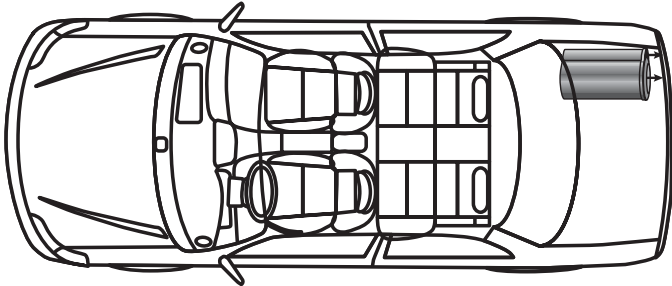
HATCHBACK INSTALLATION

tube size is exaggerated for emphasis

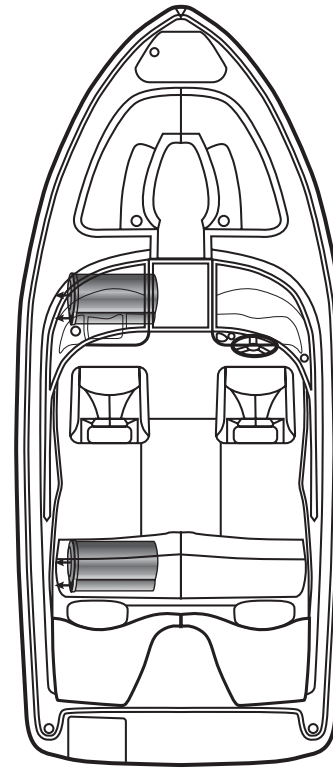


SEDAN INSTALLATION

tube size is exaggerated for emphasis



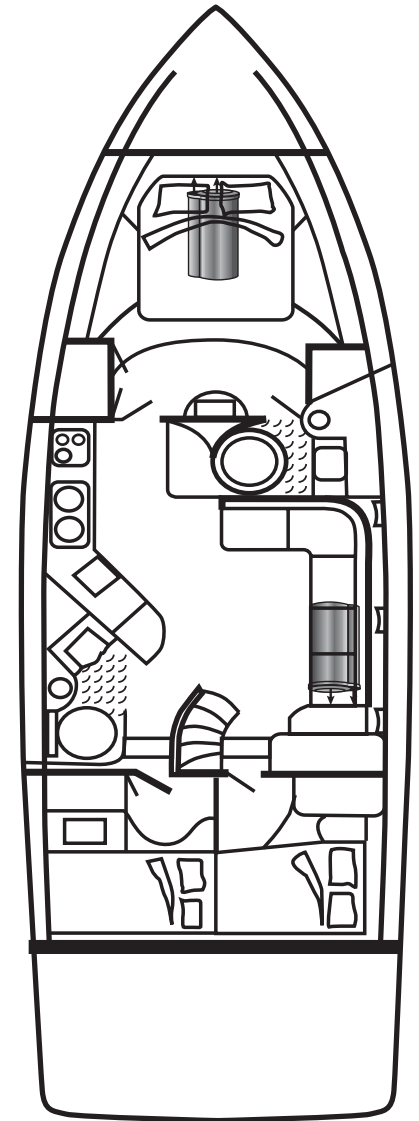
BOAT PLACEMENT RECOMMENDATIONS



BOW RIDER/SKI BOAT

tube size is exaggerated for emphasis

- Under passenger console
- Under seat storage compartment



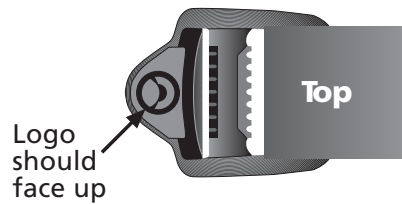
SPORT YACHT

tube size is exaggerated for emphasis

- Under bed storage compartment
- Under seat storage compartment

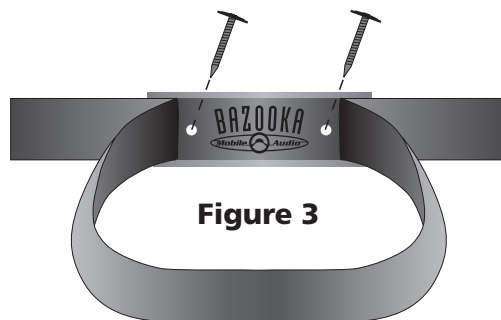
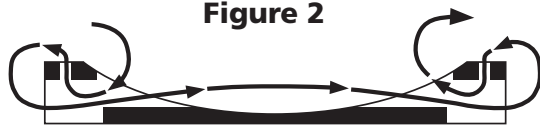
MOUNTING THE BAZOOKA

Figure 1



1. With the topside of the buckle facing up (see figure 1), lace the strap through the mounting base as illustrated in figure 2

Figure 2



2. After the strap is completely laced through the mounting base, make a loop with the strap, where it runs across the middle of the base as illustrated in figure 3. This loop is necessary to access the two mounting holes in the base.

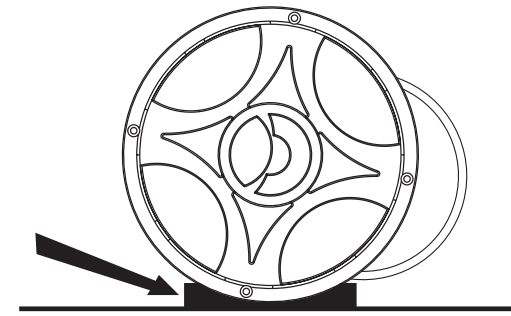


Figure 4

3. Place each mounting base under the Bass Tubes® enclosure so that the apex at the bottom of the tube sits inside the mounting base as in figure 4.

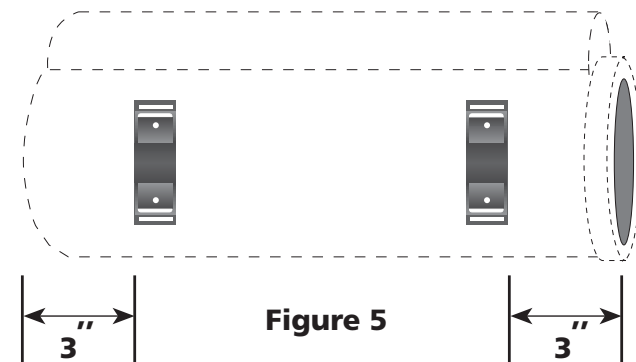


Figure 5

4. Move the bases so that they are spaced approximately 3" from each end of the enclosure as illustrated in figure 5.

5. Remove the Bass Tubes® enclosure without moving the mounting bases and set it aside.

6. Screw each mounting base securely in place with screws provided as illustrated in figure 3.

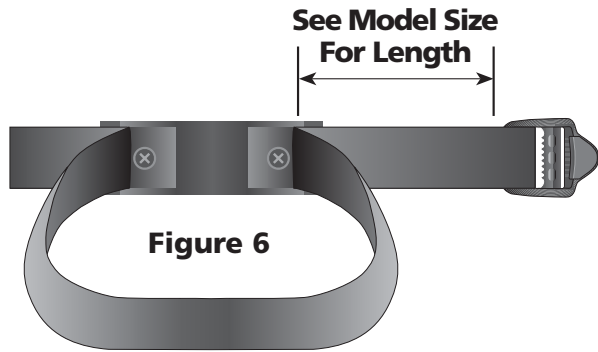


Figure 6

7. Remove any slack in the strap by feeding it out of the mounting base on the loose end of the strap opposite the buckle.

8. Place the Bass Tubes® enclosure on the mounting bases and fasten the buckles as illustrated in figure 7. The strap should loop through the buckle and be tightened securely by holding the strap in place with one hand and pulling the loose end away from the buckle, but against the cabinet.

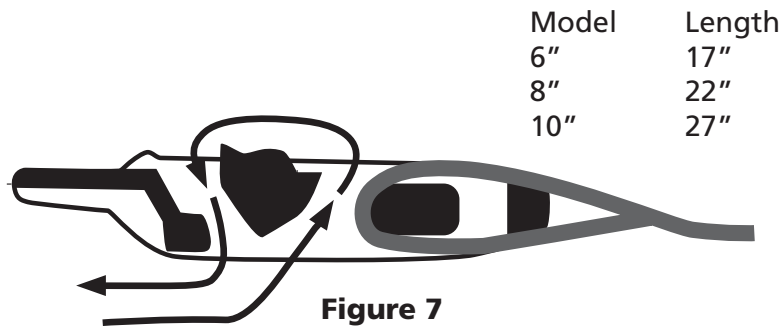
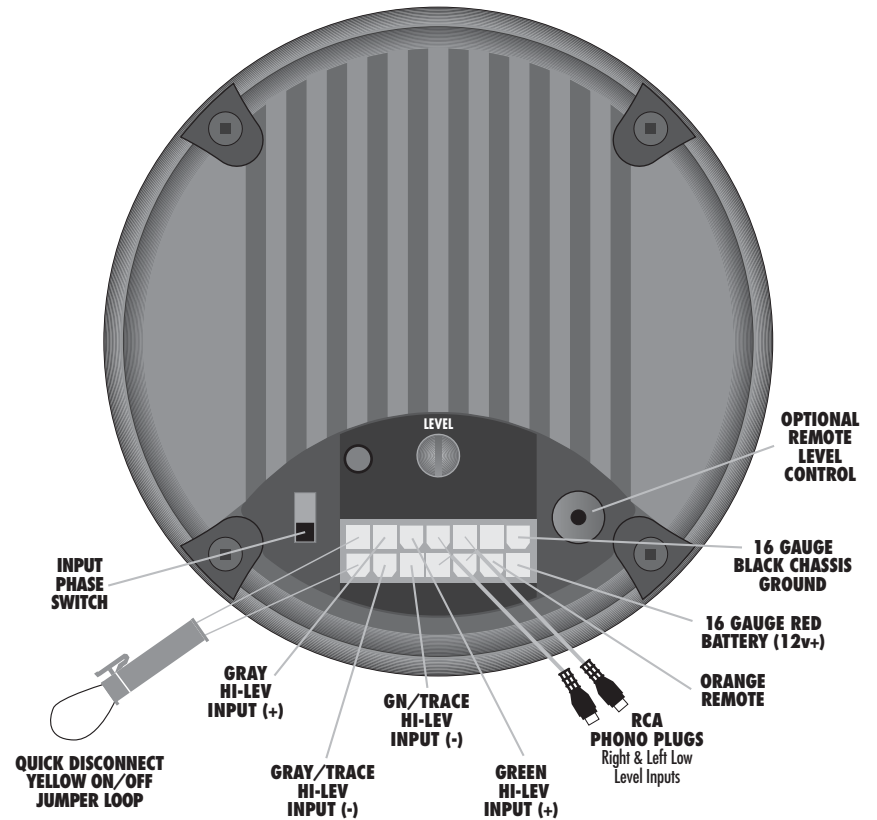


Figure 7

Technical Note:

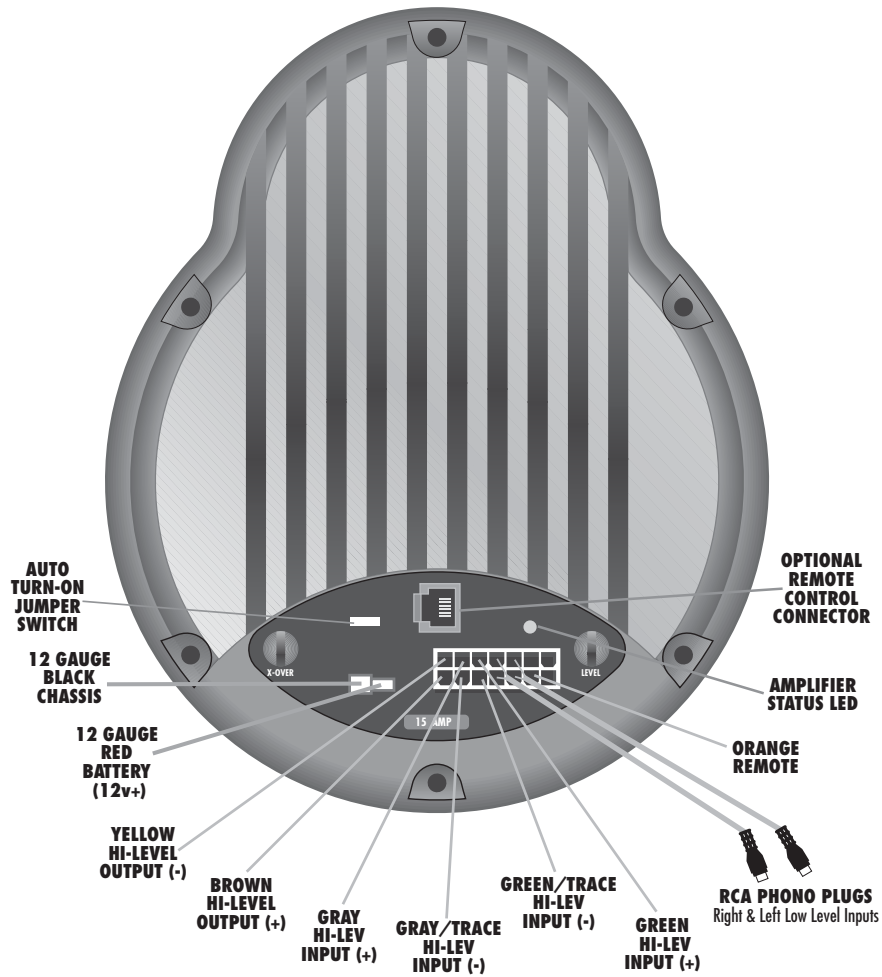
Due to the jarring and shifting that can occur in a vehicle, the mounting straps may stretch or loosen. We recommend that you check the straps regularly to assure that your Bass Tubes® enclosure is mounted securely in place.

EL WIRING DIAGRAM

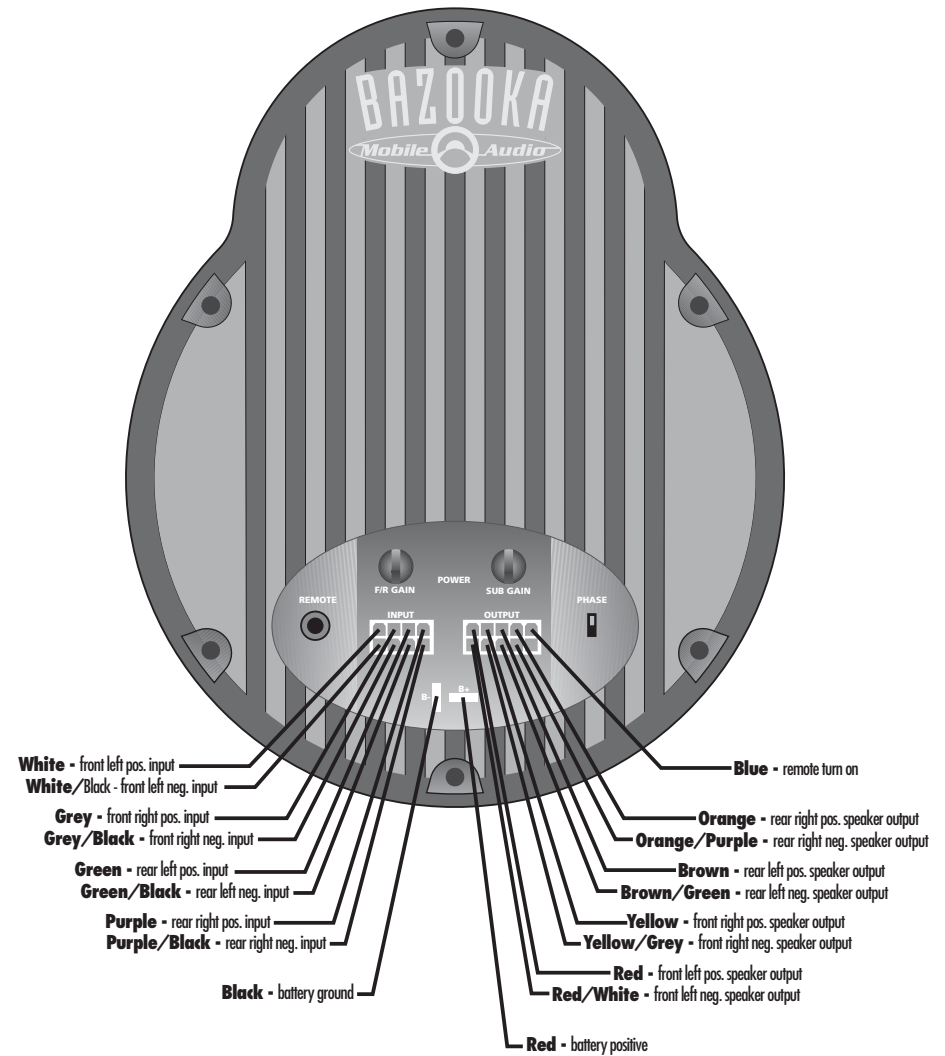


NOTE:
REMOVE AUTO TURN-ON LOOP TO USE ORANGEREMOTE WIRE FOR NORMAL REMOTE TURN-ON

RS WIRING DIAGRAM



CS8A5 WIRING DIAGRAM



AMPLIFIED TUBE SPECIFICATIONS

	EL6A-1hp	EL8A-1hp	EL10A-1hp	RS6A-1hp	RS8A-1hp	RS10A-1hp	CS8A.5
Woofer Size	6.5"	8"	10"	6.5"	8"	10"	8"
Voice Coil Size	1" high power./high temp.	1" high power./high temp.	1.5" high power./high temp.	1" high power./high temp.	1.5" high power./high temp.	1.5" high power./high temp.	1" high power./high temp.
Magnet Size	13 oz.	15 oz.	28 oz.	20 oz.	28 oz.	28 oz.	28 oz.
Frequency response*	39-85 hz.	39-85 hz.	39-85 hz.	39-250 hz.	39-250 hz.	39-250 hz.	sub 20-100hz./hi-pass 100-20khz
Efficiency**	103 dB*	105 dB*	107 dB*	100 dB*	102 dB*	104 dB*	105 dB*
Power Handling	100 watts	100 watts	100 watts	150 watts	150 watts	150 watts	sub 100w x 1/hi-pass 25w x 4
Dimensions	18.125" x 6.75" x 8"	18.125" x 8.5" x 10"	20.875" x 10.3" x 12.2"	18.325" x 6.75" x 8"	18.325" x 8.5" x 10"	21.1" x 10.3" x 12.2"	18.325" x 8.5" x 10"
Weight	12 lbs.	14 lbs.	24 lbs.	15 lbs.	20 lbs.	25 lbs.	20 lbs.
Impedance	2 ohms DVC	2 ohms DVC	2 ohms DVC	4 ohms	4 ohms	4 ohms	2 ohms DVC

PASSIVE TUBE SPECIFICATIONS

	EL604/608	EL804/808	EL104/108	RS604DV/608DV	RS804DV/808DV	RS104DV/108DV
Woofer Size	6.5"	8"	10"	6.5"	8"	10"
Voice Coil Size	1" high power./high temp.	1.5" high power./high temp.	1.5" high power./high temp.	1.5" high power./high temp.	2" high power./high temp.	2" high power./high temp.
Magnet Size	20 oz.	28 oz.	28 oz.	28 oz.	36 oz.	36 oz.
Frequency response*	39-1500 hz.	39-1500 hz.	39-1000 hz.	39-1500 hz.	39-1500 hz.	39-100 hz.
Efficiency**	100 dB*	102 dB*	104 dB*	100 dB*	102 dB*	104 dB*
Power Handling	6-100 watts/channel	6-150 watts/channel	6-200 watts/channel	6-150 watts/channel	6-200 watts/channel	6-250 watts/channel
Dimensions	18" x 6.75" x 8"	18" x 8.5" x 10"	20.75" x 10.3" x 12.2"	18" x 6.75" x 8"	18" x 8.5" x 10"	20.75" x 10.3" x 12.2"
Weight	11 lbs.	15.5 lbs.	23 lbs.	13 lbs.	19 lbs.	26 lbs.
Impedance	4 ohms/8 ohms	4 ohms/8 ohms	4 ohms/8 ohms	4 ohms/8 ohms	4 ohms/8 ohms	4 ohms/8 ohms

11

MARINE TUBE SPECIFICATIONS

	SM804	SM104	SM8A	SM10A	SM8A-1hp	SM10A-1hp
Woofer Size	8"	10"	8"	10"	8"	10"
Voice Coil Size	1" high power./high temp.	1.5" high power./high temp.	1" high power./high temp.	1.5" high power./high temp.	1.5" high power./high temp.	1.5" high power./high temp.
Magnet Size	28 oz.	28 oz.	15 oz.	28 oz.	28 oz.	28 oz.
Frequency response*	39-1500 hz.	39-1000 hz.	39-85 hz.	39-85 hz.	39-250 hz.	39-250 hz.
Efficiency**	102 dB*	104 dB*	105 dB*	107 dB*	102 dB*	104 dB*
Power Handling	6-150 watts/channel	6-200 watts/channel	6-200 watts/channel	100 watts	150 watts	150 watts
Dimensions	18" x 8.5" x 10"	20.75" x 10.3" x 12.2"	18.125" x 8.5" x 10"	20.875" x 10.3" x 12.2"	18.325" x 8.5" x 10"	21.1" x 10.3" x 12.2"
Weight	15.5 lbs.	23 lbs.	14 lbs.	24 lbs.	20 lbs.	25 lbs.
Impedance	4 ohms/8 ohms	4 ohms/8 ohms	2 ohms DVC	2 ohms DVC	4 ohms	4 ohms

* The built in crossover limits the frequency response of the Amplified Bazooka.

** The efficiency levels of all Bazooka subwoofer speaker systems are measured in the typical environment: in the low bass region with one watt of power.

MODEL FEATURES

Feature	CS8A5	EL604/8	EL804/8	EL104/8	EL6A-hp	EL8A-hp	EL10A-hp	RS604DV	RS804DV	RS104DV	RS6A-hp	RS8A-hp	RS10A-hp	SM804	SM104	SM8A	SM10A	SM8A-hp	SM10A-hp	
Patented Bass Tubes® enclosure design	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Optimized for Corner Loading	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Water resistant enclosure	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Fits in all vehicles	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Upgrades any 12 volt sound system	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Perfect for leased vehicles	X	X	X	X	X	X	X	X	X	X	X	X	X							
Home audio quality sound	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
New and improved cosmetics	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Dual voice coil inputs								X	X	X										
Large oversized edge roll								X	X	X										
Oversized magnet and motor structure								X	X	X										
Built-in 100 watt mono amplifier					X	X	X									X	X			
Built-in 150 watt mosfet mono amplifier											X	X	X					X	X	
Built-in 4 x 25 watt/channel front stage amplifier	X																			
Noise rejecting balanced input circuit	X				X	X	X				X	X	X			X	X	X	X	
Fixed 85 hz 18 dB subwoofer crossover	X				X	X	X									X	X			
Variable 60 - 250 hz subwoofer crossover											X	X	X					X	X	
Built-in 12dB subsonic filter at 35 hz	X				X	X	X				X	X	X			X	X	X	X	
Selectable Automatic turn on circuit					X	X	X				X	X	X			X	X			
Optional remote subwoofer control	X				X	X	X				X	X	X			X	X	X	X	
Optional remote crossover control											X	X	X					X	X	
Optional Universal Mounting System	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Jet black paint finish	X	X	X	X	X	X	X	X	X	X	X	X	X							
Spring loaded terminals		X	X	X																
Gold plated 5-way binding posts								X	X	X				X	X					
Salt fog and UV certified for 5 years														X	X	X	X	X	X	
Waterproof woofers														X	X	X	X	X	X	
Stainless steel hardware														X	X	X	X	X	X	
Weather resistant velcro reinforced mounting straps														X	X	X	X	X	X	
One year warranty	X	X	X	X	X	X	X							X	X	X	X	X	X	
Two year warranty								X	X	X	X	X	X							

AMPLIFIED MODELS:

(EL6A-hp, EL8A-hp, EL10A-hp, RS6A-hp, RS8A-hp, RS10A-HP, CS8A5, SM8A, SM8A-hp , SM10A, SM10A-hp)

DO NOT substitute the fuse included with the Amplified Bazooka subwoofer with anything other than the SAME fast blow current rated fuse. Substitution or deletion will void the product's warranty and may cause damage to your car or the amplifier.

SHOULD I USE HIGH OR LOW LEVEL INPUTS?

If the source unit has only speaker outputs, use the high-level inputs of the Amplified Bazooka subwoofer. If the source unit has both high and low level outputs, we recommend using the high level inputs over the low level inputs, due to the configuration of the Amplified Bazooka subwoofer's balanced input circuit. Not all head units, even those that promise high output voltage in their marketing materials, indeed have high-voltage RCA outputs. Because of this, Bazooka Mobile Audio recommends using the speaker level inputs when in doubt—they will always provide sufficient drive level to the amplifier. PLEASE NOTE THAT THE WIRING IN A FACTORY STEREO MAY NOT BE ELECTRICALLY IN PHASE EVEN WHEN YOU HAVE MADE THE PROPER CONNECTIONS.

Take the time after you make your wire connections to run through the quick phase check procedure in the "AM I IN PHASE?" section at the end of this manual, and NEVER USE BOTH high and low-level inputs at the same time!

POWER WIRE (All Models)

The power wire must be fused and connected directly to the positive terminal of the battery to provide a power source with a low voltage drop and low noise. Do not make the power connection at the fuse block or any point other than the battery. Improper power sources can reduce output and cause distortion.

The fuse holder should be connected to the battery's positive terminal. The fuse is designed to prevent fire or damage to your car, should the battery wire short to ground. Wait to insert the fuse into its holder until all wire connections have been made.

If it is necessary to lengthen the battery wire, add the required length between the amplifier and the fuse holder, not the fuse holder and the battery. If you need to extend the battery wire, use 16 gauge or larger for all EL Amplified, SM8A, and SM10A models, and 12 gauge or larger for all RS Amplified, SM8A-hp, SM10A-hp, and CS8A5 models. It is best to use as short a wire as possible. Be sure you DO NOT run the power wire next to the input cables of the amplifier this will induce noise. Avoid running the power wire near the radio's antenna or power leads, or near sensitive equipment or harnesses. The power wire carries substantial currents and could induce noise.

GROUND WIRE (All Models)

The ground wire must be connected directly to the vehicle chassis near the amplifier. We do not recommend extending the ground wire in any installation, as this can cause unwanted ground loops.

The ground point in the car should be a piece of chassis metal that is part of or welded to the main body of the vehicle. Painted surfaces should be scraped or sanded clean to expose the bare metal before the ground lug is bolted down. (Cover the bare metal area with paint or grease after you finish mounting the ground wire to prevent rust.)

REMOTE TURN ON OPTIONS (Does not apply to CS8A5)

You have several options in connecting the Remote Turn On Wire. These options are listed in the order of preference recommended by SAS. Select the option best suited for your application. The ORANGE wire on the Amplified Bazooka subwoofer's 14-pin Molex Mini-fit Jr. connector is the Remote Turn On Wire.

OPTION ONE:

For the most versatility the Remote Turn On Wire should be connected to the source unit's "Accessory", "Auto-Antenna" or "Remote" lead - - any of which will supply 12 Volts positive when the source is turned on. **When you are using this option with:**

ALL EL Amplified, SM8A, and SM10A: The Quick Disconnect YELLOW On/Off Jumper Loop MUST be disconnected from the wiring harness.

ALL RS Amplified, SM8A-hp, and SM10A-hp: The Auto/off Jumper Clip must be in the off position (the two right most pins) and the Orange wire will supply turn on voltage to the Amplified Bazooka.

OPTION TWO:

If the source does not have an Auto-Antenna lead (or if the Auto-Antenna goes down during tape operation), you can connect the Amplified Bazookas' Remote Turn On Wire to an accessory or ignition point at the vehicle fuse block. In this configuration, the Amplified Bazooka subwoofer will be on whenever the ignition is on. This method may allow noise or turn-on-and-off transients to become amplified when the source unit is not in use, and therefore is a less desirable than option one. **When you are using this option with:**

ALL EL Amplified, SM8A, and SM10A: The Quick Disconnect YELLOW On/Off Jumper Loop MUST be disconnected from the wiring harness.

ALL RS Amplified, SM8A-hp, and SM10A-hp: The Auto/off Jumper Clip must be in the off position (the two right most pins) and the Orange wire will supply turn on voltage to the Amplified Bazooka.

OPTION THREE:

The Amplified Bazooka subwoofer has a built-in Auto Turn-On Feature. If you choose to use this feature, the Amplified Bazooka subwoofer will turn on automatically whenever there is music present at the inputs (high level or low level input). **To use the Auto Turn-On Option with:**

ALL EL Amplified, SM8A, and SM10A: Locate the Auto/Off Jumper Loop located on the wiring harness; SAS ships the Amplified Bazooka subwoofer with this Jumper in the ON Position. The Quick Disconnect YELLOW On/Off Jumper Loop must be plugged into the harness.

ALL RS Amplified, SM8A-hp, and SM10A-hp: Locate the Auto/Off Jumper Clip located on the back of the unit; SAS ships the Amplified Bazooka subwoofer with this Jumper in the Off Position. The Jumper must be placed in the Auto Position. The Jumper Clip must be lifted off of the middle and right hand pins and reinserted across the left hand.

INPUT SIGNAL CONNECTIONS (Does not apply to CS8A5)

High-Level Inputs:

If the source unit has both front and rear speaker outputs, use only one set of speaker outputs for the high-level input of the Amplified Bazooka. Connect the GREEN wire from the 14-pin Molex plug of the Amplified Bazooka subwoofer to the source units left (+) positive speaker output. Connect the GREEN W/BLACK stripe wire of the plug to the source units left (-) negative speaker output. Connect the GRAY wire of the plug to the source units right (+) positive speaker output. Connect the GRAY W/BLACK stripe wire of the plug to the source units right (-) negative speaker output. When using high-level inputs, take the time after you make all wiring connections to run through the AM I IN PHASE procedure at the end of this manual to confirm that your inputs are in correct electrical phase and the proper bass response is being produced.

Low-Level Inputs:

If your source unit only has low-level RCA phono jack output, use only the low-level inputs of the Amplified Bazooka. Connect the low-level RCA phono jack inputs of the Amplified Bazooka subwoofer to the source with a shielded RCA patch cord. To avoid possible noise problems, be sure to run the patch cord away from all power wires and factory wire harnesses. When using the low-level inputs DO NOT make any connections to the Green and Gray high-level input wires of the Amplified Bazooka subwoofer and make sure these wires are insulated to avoid the possibility of a short circuit.

ADJUSTING THE CROSSOVER (All RS Amplified, SM8A-hp, and SM10A-hp ONLY)

The built-in crossover on the Amplified Bazooka subwoofer is an 18 dB per octave electronic low pass filter, it has a 60 Hz to 250 Hz variable crossover point. Select the crossover point that you feel best fits your system design. Set the potentiometer labeled XOVER to the point you selected, 60 Hz being all the way to the left (counterclockwise) and 250 Hz being all the way to the right (clockwise). When you have set the crossover, proceed to the next step.

CS8A5 TURN ON & INPUT/OUTPUT CONNECTIONS:

Turn On:

The BLUE with WHITE wire on the CS8A5's 10-pin connector is the remote turn on wire. You have two options in connecting the remote turn on wire. Select the option best suited for your application.

Option One:

For the best functionality, the remote turn on wire should be connected to the source unit's "Accessory", "Auto-Antenna" or "Remote" lead -- any of which will supply 12 Volts positive when the car's radio is turned on.

Option Two:

If the source does not have an Auto-Antenna lead (or if the Auto-Antenna goes down during tape or CD operation), you will need to connect the remote turn on wire to an accessory or ignition point at the vehicle fuse block. In this configuration, the CS8A5 will be on whenever the ignition is on. **This method may allow noise or turn-on-and-off transients to become amplified when the source unit is not in use.**

INPUT/OUTPUT HARNESS CONNECTOR DETAIL

8 pin input connector: **(1)**

White	Front Left Positive Input
White/Black	Front Left Negative Input
Grey	Front Right Positive Input
Grey/Black	Front Right Negative Input
Green	Rear Left Positive Input
Green/Black	Rear Left Negative Input
Purple	Rear Right Positive Input
Purple/Black	Rear Right Negative Input

10-pin speaker output connector: **(2)**

Red	Front Left Positive Speaker Output
Red/White	Front Left Negative Speaker Output
Yellow	Front Right Positive Speaker Output
Yellow/Gray	Front Right Negative Speaker Output
Brown	Rear Left Positive Speaker Output
Brown/Green	Rear Left Negative Speaker Output
Orange	Rear Right Positive Speaker Output
Orange/Purple	Rear Right Negative Speaker Output
Blue	Remote Turn On (3)

(1) This connector is for INPUTS ONLY! These wires need to be connected directly to the output of the radio.

(2) This connector is for OUTPUTS only! NEVER connect any wires from this plug to ground, as serious damage to amplifier could occur

(3) You have two options for this connection. See "Remote Turn on Options" on page 13.

PHASE SWITCH (All EL Amplified, SM8A, SM10A, and CS8A5)

When one of the High-level Input channels is out of phase electrically with the other High-level Input channel, your Amplified Bazooka subwoofer will sound as if it has little or no output and any output that is produced may sound distorted. If you suspect that your Amplified Bazooka subwoofer is out of phase, use the AM I IN PHASE procedure to diagnose and correct the Amplified Bazooka subwoofer output, and proper bass response will be produced.

To correct this situation, simply flip the phase switch on the Amplified Bazooka. When the input signal is in correct electrical phase, the level of bass output will be greatest when the balance control of the radio is set to the center position.

SETTING THE LEVEL (All Models)

Locate the potentiometer labeled LEVEL. This is the level control. Start with the level control turned all the way to the left (counterclockwise). The bass should be off or very low at this point. Turn up your head unit until the sound from the existing speakers starts to clip or distort. This is the point in your system where you will get maximum volume with the least amount of distortion. With the head unit at this point, turn the level gain control up slowly until the bass volume blends well with the existing high frequency speakers. This should be the proper setting for the level gain control. Now that the level is set, you may want to go back to the x-over control and adjust the x-over point by ear to meet the desired sonic quality of your system design (All RS Amplified, SM8A-hp, and SM10A-hp models ONLY have adjustable crossovers).

LED POWER INDICATOR

If power, ground and remote are connected properly, the green LED light will illuminate.

WHITE = OFF (ALL RS Amplified, SM8A-hp, and SM10A-hp)

GREEN = NORMAL OPERATION (ALL Models)

RED = PROTECTION MODE (ALL RS Amplified, SM8A-hp, and SM10A-hp)

OPTIONS (All EL Amplified, SM8A, SM10A, and CS8A5)

Remote Bass Control (RBCM-EL):

If you find you like to change the level of bass depending on what you are listening to and want an easy way to make this possible, you can purchase an optional Remote Level Control.

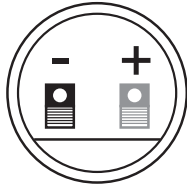
All RS Amplified, SM8A-HP, SM10A-HP.

Remote Bass Control and Crossover (RBCM-RS):

If you find you like to vary the crossover point in addition to changing the level of bass depending on what you are listening to and want an easy way to make this possible, you can purchase an optional Remote Level and Crossover Control.

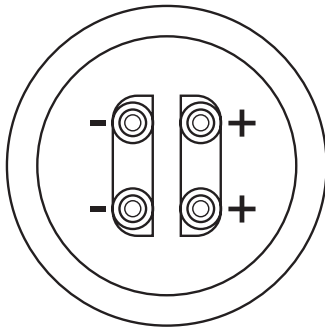
These Remote Controls are accessories that are available from your Bazooka dealer or directly from Bazooka. Be sure to check out other optional accessories for your Bazooka at

PASSIVE MODELS



(EL604, EL608, EL 804, EL808, EL104, EL108, SM804, SM104 ONLY)

On the back of all Bazooka EL and Marine passive models you will find a terminal cup with two spring loaded terminals, red being positive and black being negative. Hook the positive speaker output from your amplifier to the red positive terminal of the Bazooka. Hook the negative speaker output from your amplifier to the black negative terminal. Repeat these steps for each Bazooka used.



(RS604DV, RS608DV, RS804DV, RS808DV, RS104DV, RS108DV)

On the back of all Bazooka Reference Series passive models you will find a terminal cup with two 5 way gold binding posts, red being positive and black being negative. Hook the positive speaker output from your amplifier to the red positive terminal of the Bazooka. Hook the negative speaker output from your amplifier to the black negative terminal. Repeat these steps for each Bazooka used.

TROUBLESHOOTING

Am I In Phase?

If your inputs are out of phase and you turn the balance control of your radio all the way to one side, right or left, the bass output from the Bazooka® will increase. When you bring the balance control back to the center position the bass level will drop. This confirms that one of your input channels is wired out of phase with the other.

When one of the Amplified Bazooka's High-level Input channels is out of phase electrically with the other High-level Input channel, your Bazooka will sound as if it has little or no output and any output that is produced may sound distorted. If you suspect that your Bazooka is out of phase, use the AM I IN PHASE procedure to diagnose and correct the Bazookas' output, and proper bass response will be produced. channels is wired out of phase with the other. To correct this situation, simply flip the phase switch on the amplified Bazooka®. When the input signal is in correct electrical phase, the level of bass output will be greatest when the balance control of the radio is set to the center position.

Do You Have A Phase Problem?

If the bass response in your application appears to be lower than you expected or sounds muffled and or distorted, you may be experiencing Phase Cancellation.

Phase Cancellation

When two speakers in the same frequency range produce sound waves that are inverted from one another or 180° out of phase, the sound waves will cancel each other out to some degree. This effect will be heard as a drop in the output level and/or a muffled or muddy quality in the Bass Response. The source of this Phase Cancellation can be at any point in the signal path. The obvious cause of this problem would be a speaker connection that was reversed in polarity, but that is not always the case. Sometimes amplifier channels will shift phase 180° for no good reason, or a signal processor could have a setting for phase that has been set incorrectly or the source material could just be recorded in error. Also speaker placement and the acoustics of the listening environment can effect the phase. No matter what or where the cause is located, the solution is an easy one.

PHASE CORRECTING PROCEDURE

Disconnect all but one Bazooka® from your system. Be sure that any loose wire connections are insulated to avoid the chance of short-circuiting any of the electronic equipment. Listen to the system and take note of the level of the Bass Response. Connect the next Bazooka® and compare the level of the combined output to that of the single unit. If the Bass Response increases, the Phasing is correct and you can repeat this process on the next Bazooka. If the level of the Bass Response drops, the Phasing is incorrect and you should reverse the speaker connections to this Bazooka® and compare again. In short to **INCREASE IS GOOD**, to **DECREASE IS BAD!** Using this method, any number of Bazooka® subwoofers can be kept in absolute phase.

PRACTICE SAFE LISTENING

Continuous exposure to high volumes of sound may cause permanent hearing loss. High-powered auto sound systems are capable of producing sounds well over 130 dB. Even short periods of play at high volume levels can impair your ability to hear necessary traffic sounds and may constitute a hazard. Please use common sense and practice SAFE LISTENING!

If you have any questions contact the
SAS Technical Support Department at:
Phone - **(800) THE TUBE** • Fax - **(225) 272-9844**

In Canada: **(604) 988 2966**

Email - **tech@bazooka.com** • Website - **www.bazooka.com**
15049 Florida Blvd., Baton Rouge, LA. 70819

LIMITED WARRANTY (UNITED STATES)

Southern Audio Services, Inc., warrants all products to be free from defects in material and workmanship for a period of one (1) year from the date of purchase; the Reference Series is warranted for a period of two (2) years from date of purchase.

In the event the product is not as warranted, SAS' sole obligation shall be to repair or replace the defective product at SAS' option: SAS limits its obligation under any implied warranties under state laws to a period not to exceed the limited warranty period. SAS and its authorized BAZOOKA® dealers specifically disclaim liability for any incidental or consequential damages. Some states do not allow limitations on how long an implied warranty lasts, and some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusions may not apply to you. This warranty gives you specific legal rights, and you may have other rights, which vary from state to state.

What is covered:

This warranty covers all defects in materials or workmanship (parts and labor) in the product.

What is not covered:

This warranty does not cover the following:

1. Damages occurring during shipment of the product to SAS for repair (claims must be presented to the carrier).
2. Damages caused by accident, abuse, negligence, misuse or improper operation or installation.
3. Damages caused by an act of God, including without limitation, fire, flood, storms, or other acts of nature.
4. Any product, which has a serial number, defaced, altered, modified, or removed.
5. Any product that has been altered or modified without SAS' consent.

How to obtain warranty services:

1. You are responsible for delivery of the product to an authorized BAZOOKA® dealer or contact SAS at 1-800-THE TUBE for a Return Authorization number. The Return Authorization number must be clearly written on the outside of the box. Freight must be prepaid to SAS. Warranty replacement parts will be returned freight prepaid. The entire enclosure may be returned for warranty service, but return will be freight collect.
2. You must provide proof of the date of purchase of the product. If proof of purchase is not provided, original date of manufacture will be used to determine warranty period.
3. You must package the product securely to avoid damage during shipment.
4. After acquiring a Return Authorization number, ship to the address below.

IN MEXICO:

COIBA IMPORT S.A. DE C.V
Torrecillas # 2060
Guadalajara Jalisco Col. El Rosario
México C.P. 44890

Modelo: EL604/608, EL804/808, EL104/108, EL6A-hp, EL8A-hp, EL10A-hp,
RS604DV/608DV, RS804DV/808DV, RS104DV/108DV, RS6A-hp,
RS8A-hp, RS10A-hp, SM804, SM104, SM8A, SM10A, SM8A-hp,
SM10A-hp, CS8A5

RFC CIM-000901-1k0 Producto: Bocinas

POLIZA DE GARANTIA CONDICIONES

El producto que usted ha adquirido Cuenta con una garantía de 90 días Por defectos de fabricación y 90 días De servicio a partir de la fecha de Adquisición otorgada por:

COIBA IMPORT S.A. DE C.V

- 1.- Para hacer efectiva esta garantía, usted debe presentar la factura de compra o póliza debidamente llenada por la tienda o unidad vendedora junto con el producto.
- 2.- La empresa e compromete a reparar al producto, sin costo alguno al consumidor; si la falla es atribuible a defecto de fabricación.
- 3.- El tiempo de reparación en ningún caso será mayor de 30 días, transcurrido este término COIBA IMPORT S.A. DE C.V. procederá a Efectuar el cambio por un producto equivalente.
- 4.- Centro de Servicio:Torrecillas #2060 Guadalajara Jal. Col. El Rosario C.P. 44890

Esta garantía no es valida en los siguientes casos

- 1.- Cuando el producto no ha sido utilizado de acuerdo al instructivo.
- 2.- Si no se ha observado las advertencias señaladas
- 3.- Si ha sido expuesto a cambios bruscos de voltaje
- 4.- Si ha sufrido deterioro esencial irreparable atribuido al consumidor
- 5.- Cuando el producto ha sido alterado o reparado por personas jenas a nosotros
- 6.- Esta póliza es nula si no cuenta abajo con los datos requeridos y sellos de la tienda donde se realizó la compra.

GARANTIA VALIDA EN TU TIENDA DE SERVICIO

**Sello y firma
De la tienda**

DATOS DEL DISTRIBUIDOR

Nombre: _____

Calle y # _____

Colonia _____

Producto: _____

Fecha de compra: _____

PLEASE RETURN THIS PORTION IMMEDIATELY

MODEL#

SERIAL#

PURCHASE DATE

DEALER PURCHASED FROM

DEALER ADDRESS

TELEPHONE

PURCHASERS NAME

STREET ADDRESS

CITY

STATE

TELEPHONE

E-MAIL

ZIP