

# STUDIO SERIES FULL RANGE LOUDSPEAKER

<i>Studio5.25</i>	<i>Full Range 5.25"</i>	<i>120Watt</i>
<i>Studio5.7</i>	<i>Full Range 5*7"</i>	<i>120Watt</i>
<i>Studio6.5</i>	<i>Full Range 6.5"</i>	<i>160Watt</i>
<i>Studio6.9</i>	<i>Full Range 6*9"</i>	<i>200Watt</i>

Please read carefully before you start installation!

  
*American Bass*  
"Excellence In Sound"

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## ***Important Safety Instructions***

Please read all warnings found in this manual. They inform you of the potential danger of personal injury or damage to property.

**Our products are intended for use only by those possessing the necessary specialized knowledge. The relevant safety regulations regarding related auto parts, the regulations on internal vehicle safety, as well as the regulations of the authorized vehicle manufacturers should be followed diligently.**

### **Hearing Damage**

Continuous, excessive exposure to sound pressure levels in excess of 85 dB can cause a loss of hearing. Americanbass components are capable of producing sound pressure levels greater than 85 dB.

### **Volume and Driver Awareness**

Use of sound components can impair your ability to hear necessary traffic sounds and may constitute a hazard while driving your automobile.

Americanbass accepts no liability for hearing loss, bodily injury or property damage as a result of use or misuse of this product.

### **Working on Automobile**

Do not use your automobile until all components of the loudspeaker system have been secured to the interior framework. Failure to do so may turn a component into a dangerous, flying projectile during a sudden stop or accident.

Do not drill or drive screws through any vehicle interior or carpeted floor before inspecting the underside for potential punctures to control lines or cables. Be sure to avoid all fuel lines, brake lines, electrical cable or oil lines when planning the installation.

Before beginning installation of the loudspeaker system remove the minus connector (-) from the automobile battery in order to avoid possible short circuits.

Use care when removing interior trim panels. Car manufacturers use a variety of fastening devices that can be damaged in the disassembly process.

If sheet metal must be cut or removed contact your authorized car dealer for professional advice. **By damage to supporting body structures the safety certificate may be withdrawn.**

### **! Shock Hazard !**

Do not touch the connectors when the system is running!

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Dear valued customer,

We congratulate you on your purchase of our superior product and thank you for placing your trust in Americanbass We have put together this installation manual with great consideration of different mechanical and acoustical auto features. Nevertheless, mistakes can happen. We would greatly appreciate your bringing any mistakes you come across to our attention.

Please review the list at hand (page 4) of the complete system components to ensure against missing or damaged equipment and notify your dealer immediately of any problems. Your dealer will provide you with any necessary replacement parts and assistance you may require.

Best wishes,  
Your Americanbass Team

### ***Attention: Important Operational Information. Please Read Before Installation.***

- ⚠ When connecting the loudspeaker, crossover, and amplifier it is absolutely necessary to employ the same polarity. Interchanging the polarity produces an unnatural sound lacking bass reproduction.
- ⚠ For the purpose of technical safety, the loudspeaker should only be attached with the included self-tapping screws. We accept no liability for use of alternative methods of attachment.

## **Technical Dates**

<b>System:</b>	<b>STUDIO5.25</b>	<b>STUDIO5.7</b>	<b>STUDIO6.5</b>	<b>STUDIO6.9</b>
Max. Input Power:	120 Watt	120 Watt	160 Watt	200 Watt
Rated Power:	60 Watt	60 Watt	80 Watt	100 Watt
Sensitivity:	87 dB / 1 W / 1 m	87 dB / 1 W / 1 m	90 dB / 1 W / 1 m	88 dB / 1 W / 1 m
Frequency Response:	66 – 20.000 Hz	65 – 20.000 Hz	70 – 20.000 Hz	55 – 20.000 Hz
Impedance:	4 Ω	4 Ω	4 Ω	4 Ω
Mounting Depth without ring / with ring:	54 / 52 mm	58 mm	60/58 mm	79/76 mm
External Diameter without ring / with ring:	129 / 159 mm	220x140 mm	166.5 / 174 mm	237x163/ 258x185 mm
Installation Diameter:	111 mm	182x127 mm	142 mm	220x150 mm
Fastening Diameter:	138 mm	112x115 mm	157 mm	166x118 mm
Application:	Universal Door and Rear	Universal Door and Rear	Universal Door and Rear	Universal Door and Rear

## **Contents and Parts Reference**

- 2 pcs. Full Range-loudspeakers Studio5.25,Studio6.5,Studio5.7,Studio6.9
- 1 pcs. Screw pack
- 1 pcs. Installation instructions

## **Installation Information**

**AMERICANBASS STUDIO FULL RANGE** loudspeakers are high quality car hi-fi systems which can be operated with any commercial amplifier. To guarantee the best acoustic reproduction we recommend the use of a power amplifier of at least 30 watts. The sensitivity of AMERICANBASS loudspeakers makes an enormous volume of sound possible, even with lowest input power.

Special adaptations to various cars and the use of selected parts in the integrated crossovers are details of our STUDIO Systems. To give your car a "factory look" you have the possibility to paint the loudspeaker grilles and mounting rings in **any colour** before the installation.

## *Placement of the Speakers*

In your car there are many locations to AMERICANBASS studio full range loudspeakers. However you should pay attention to the following facts: Your STUDIO Full Range loudspeakers need a certain volume for the reproduction of basses. A rear package shelf with a large boot or doors with a large insulating air cushion are ideal. Please check the suitability of the installation places **before you start installation**. Don't cut any of the car's structural frame. Pay attention to the mechanism of the windows and door handles. If installed in the rear, be sure that the filler neck and the petrol tank are not damaged. **Do not cut or damage cables and wires** that are run hidden in your car. The loudspeaker grilles can help you to find a suitable installation place by using them as templates on the doors or the rear package shelf. If you have experience with electrical and mechanical procedures, you can install AMERICANBASS loudspeakers on your own.

## *In-Door Installation*

To get a good front-staging the full range loudspeaker must be placed so that the tweeters radiate in ear direction. To get a kickbass the whole door volume must be strengthened. Cut the interior foil of the door covering around the installation place of the woofer and fasten it in order to prevent its vibration. It is also very important that the area around the woofer is sealed in order to avoid acoustic short circuits.

The sound deadening of the door panel can help to improve the sound. Use noise-damping material. Should the door covering vibrate it must be reinforced. If this is not possible you can achieve noise rejection by using foamed material.

## *Dashboard Installation*

Before you start installation you should cover the installation place in the dashboard loosely with polyester fabric or mineral wool. Thus you get a better bass reproduction.

## *Installation into Rear Package Shelf*

The rear window reflects and increases the reproduction of trebles (shrill and piercing) and the headrests attenuate the reproduction of high frequencies too much. Arrange the loudspeakers centred between rear window and headrests into the very right and left side. This is important for the stereophony. Should the rear package shelf vibrate it must be reinforced or attenuated.

## *Installation and Mounting STUDIO 6.9*

Remove the door panel or other coverings (according to the installation place). Plug the sheet metal nuts (**F**) according to the picture onto the door sheet metal. See **fig. 1**

Link the loudspeaker with the loudspeaker cable adapter and **pay attention for the correct polarity!** Put the loudspeaker in the loudspeaker opening and fix with the included screws (**T**).

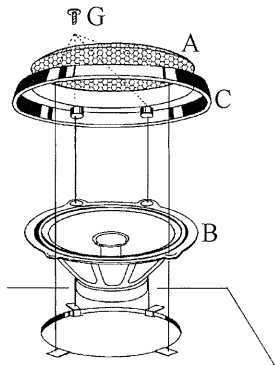
The loudspeaker installation will be effected in the factory provided installation places on the left and right side of the dashboard. See **fig. 1**.

Lift the covering ledge on the loudspeaker grille carefully with a small screwdriver and remove it. Loosen the two screws on the grille and remove it. In case the loudspeaker opening is still covered with foil, then cut the foil with a sharp knife to the size of the loudspeaker. Cut the original-connector off and replace it with the included connectors (4,8/6,3mm) or use adapter connector.

**Attention: Make sure that the same polarity is on both loudspeakers.**

Fit in the loudspeaker and press down slightly until the clamps lock into place. Put in and fix the loudspeaker grille.

**Fig. 1:** STUDIO 5.7 STUDIO 6.9

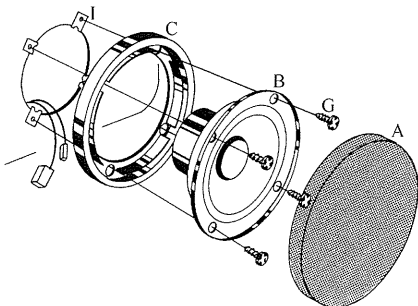


### **Installation and Mounting STUDIO 5.25,STUDIO 6.5**

If the placement has been chosen, fix installation template with tape and mark drilling holes. Make the cut-out for the chassis according to the template (for **STUDIO** you can use the adapter ring as a template). Drill the holes in indicated size. Remove all metal chips carefully. File edges and use possibly profile protection or protective lacquer. Fasten the loudspeaker (**B**) as shown in **fig.2** on the installation place. The loudspeaker connections must always be easily accessible. Use only the provided screws (**G**) 3.9 x 38 DIN 7981 and the provided sheet metal nuts (**I**) 3.9 mm.

**Do not touch the membrane and don't damage it with the screw driver.** Align chassis, make sure that an even position is guaranteed and tighten finally. **Do not over-tighten screws.** Insert grille (**A**) into the adapter ring (**C**) and push in firmly. Prepare the cable connections according to instructions and check the system with low power. After having checked the polarity and mechanical connections you can operate the system.

**Fig. 2:** STUDIO 5.25,STUDIO 6.5



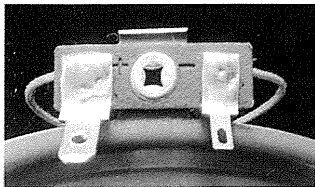
**Speaker Cover (A) and installation ring (C) are not included and must be purchased separately.**

## ***Wiring and Connection to the Amplifier/ Radio***

Connect the provided speaker cables to the plug-in connectors 4.8 mm (-) and 6.3 mm (+) DIN of the loudspeaker (see below).

Run the speaker cable to the amplifier/ radio if possible **far away from the cables of the electronic system** in order to avoid interferences. Keep the loudspeaker cables short to prevent interferences caused by the generator or the electronic system. Twisting the speaker cables makes interferences disappear. Do not roll up the cables as this, in turn, provokes them.

Make sure that the same polarity is guaranteed. Do not mix up (+) positive and (-) negative connections. Otherwise the bass reproduction is eliminated.



**Fig. 3**

## ***Maintenance***

The components should be cleaned at regular intervals as the conditions in motor vehicles rapidly cause soiling and a deterioration of the material. Use a soft, moist cloth and wipe dry. Do not use any solvents or organic detergents.

## ***Warranty***

Americanbass undertakes for all products a minimum 1-year warranty or the statutory warranty period for the perfect function of all parts. The warranty begins with the acquisition of the product by the authorized dealer, is entitled only to the direct first buyer, and is non-transferable.

The warranty covers all material and manufacturing defects, however it excludes mechanical defects, defects caused by electrical overloading and foreign interference by unauthorized persons.

### **Mechanical Defects**

Defects resulting from damage to the components during installation, dirt or metal shavings in the open magnetic system, and inappropriate installation for use not corresponding to the intended range of application.

### **Electrical Defects**

Damage resulting from electrical and thermal overloading and/or inadmissibly high power supply, and clipped amplifiers.

### **Electromechanical Defects**

Damage occurring from operation of the loudspeaker system with too high volumes, inappropriate enclosure volume, for example, trunk, etc., and the corresponding damages caused such as burned voice coils and broken lead wires, and accidents, including acts of God, or others for which Americanbass audio GmbH cannot be held accountable. In particular, water and fire are not subject to warranty. Normal wear and tear is not covered under warranty.

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