

Navisonaudio  
The natural sound



**NVS - 211SE**

# NVS - 211SE

## Mono Power Amplifier Setup and Operation Manual

**NOTE:** Before installing your new power amplifiers, please read this manual carefully as it will inform you of the product specifications, proper installation and operation procedures. Included in this manual are guidelines on how to properly install the tubes.

# Specifications

<b>POWER OUTPUT</b>	: 20 watts channel in 'Class A' operation
<b>FREQUENCY RESPONSE</b>	: 18Hz - 22KHz, + 0.3dB
<b>NOISE</b>	: - 80dB below rated output
<b>DISTORSION</b>	: Less than 1.5% THD
<b>INPUT SENSITIVITY</b>	: 2V RMS for full power output
<b>TUBE COMPLIMENT</b>	: 1 - 211GE NOS output tube 1 - 6V6GT driver tube 1 - 6SL7GT input tube
<b>OUTPUT IMPEDANCE</b>	: 8 ohm speaker connections ( <b>Recommend</b> )
<b>INPUT POWER REQUIREMENTS</b>	: 115 or 230V 50 - 60Hz, set by market
<b>POWER CONSUMPTION</b>	: Approx. 140 watts
<b>DIMENSIONS</b>	: 8.86"H x 9.05"W x 24.8"D (22.5 cm x 30 cm x 63 cm)
<b>NET WEIGHT</b>	: 46 Lbs. ( 21 kg.)
<b>SHIPPING WEIGHT</b>	: 53 Lbs. (24.2 kg.)
<b>POWER TRANSFORMER</b>	: Toroidal transformer with 200% duty cycle
<b>CAPACITORS</b>	: Oil paper
<b>AC POWER CORD</b>	: IEC standard plug, detachable cord
<b>WARM-UP TIME</b>	: 10 minutes
<b>BREAK-IN PERIOD</b>	: 100 hours of music playing time

**Specifications are subject to change or improvement without notice or obligation.**

## Cautionary Terms

When the following cautionary terms are used in this manual, these definitions apply:

### **WARNING!**

Electrical hazard! Misuse or failure to follow instructions properly may result in personal injury or death!

### **CAUTION:**

No risk of personal injury; however, misuse or failure to follow instructions may result in damage to equipment.

### **NOTE:**

No risk of personal injury or equipment damage, however, misuse or failure to follow instructions may prevent proper performance equipment.

## Top Panel Features

**OFF-ON TOGGLE SWITCH:** Turns AC power on in the rear position. The 211 output tube, 6V6 driver tube and 6SL7 input tube will light at this point.

## Rear Apron Features

**INPUT** : Signal input connection via shielded RCA interconnect cable.

**OUTPUT** : One 5-way binding posts provide output to the speaker system for 8 ohm speaker connections (**Recommend**).

**AC POWER FUSE** : Never replace with any other value than 7 AMP SLOW BLOW FUSE with 115 Volt Rating.

# Installation

This section describes the unpacking and installation procedures for your new amplifier.

## Unpacking

All shipping containers have been specially designed to protect their contents and special care has been taken to prevent damage under normal shipping conditions. Mishandling should be evident upon inspection of the shipping container. If shipping damage is found after visual inspection, take care not to destroy the evidence. If necessary, document the damage with photographs and contact the transport carrier immediately.

Carefully remove your new NVS-211SE from its packing carton and examine it closely for signs of shipping damage. It is recommended to save all original packing cartons and crates to protect your amplifier from damage should you wish to store it or ship it for after - sales service.

## Physical Placement

The NVS-211SE is designed for use in homes. It must be protected from the elements and temperature extremes. For example, avoid placing the unit in extremely hot locations such as near radiators or other heating units. Its location among the user's audio components is not critical; however, certain precautions must be taken. Avoid moisture, direct sunlight, and dusty areas.

## Power Requirements

The NVS-211SE is designed to operate from house current AC mains. The design voltage is 115 Volts AC at 50/60Hz (Export units 230 Volts AC at 50/60Hz, by market).

## Speaker Cables

The speaker cables from the output posts of the NVS-211SE to the speaker system can be any length that your setup requires. Select speaker cables of sufficient size to preserve the outstanding performance capabilities and sound quality of your new power amplifiers. Heavy duty #14 gauge wire is suitable for distances up to 15 feet; #12 gauge is good for 25-30 feet. Most audio dealers have high performance speaker cable in stock for this purpose. We strongly urge you to try several types to find the best ones for your combination of components and speakers.

## Interconnect Cables

Signal input connection is made via the RCA input jack on the rear of the amplifier located next to the output binding posts. Set the input selection switch to indicate the desired input connection RCA. The input interconnect cables from the output of the preamplifier can be any length your installation requires. A shielded high quality interconnect cable is important to reduce chances for hum or interference. Ask your Authorized Navison audio dealer for advice.

## Operation

Your new amplifier is ready for operation after the speaker cables, interconnect cables and the tubes have been installed.

### **WARNING!**

Off-On Power Toggle Switch

Push the AC toggle switch toward the rear, to the "ON" position. The 6SL7 input tubes, 6V6 driver tubes and the 211 output tubes will light up in this setting.

### **'Break In' Period**

The tubes, capacitors and the output transformers take approximately 100 hours of music playing to fully settle in for peak performance. Small imperfections in the tube surfaces will 'boil off' during the break in period as well. The amplifier will sound good right out of the box but it will improve as break in occurs. After the first couple of hours you will notice increased depth and tighter bass. This break in period is true with most high performance audio amplifiers.

### **Cleaning and Care of Finish**

The chassis may be cleaned with a soft towel and Windex® or a similar gentle window cleaner. The relative frequency of cleaning will be governed by operating environmental cleanliness. Spray the cleaner on the towel, not on the amplifier! Avoid abrasive cleaners! Feather dusters are good for cleaning the amp and the tubes when it is cool, not when ON.

### **Replacing Vacuum Tubes**

If it becomes necessary to replace the tubes, the same brand as installed new should be used. A complete new tube kit is available from Navison audio Design. Although useful tube life varies depending on the nature and degree of use, under normal home use, the 211 output tubes should last many years in the NVS-211SE. The 6V6 driver and 6SL7 input tubes should last even longer.

**NOTE:** Any current production or New Old Stock (NOS) types of 211, 6V6 and 6SL7 tubes will work fine in the NVS-211SE amplifier. The voltages are fine for all available types.

**WARNING!**

Make sure the amplifier is unplugged 30 minutes from the AC mains before replacing the tubes to avoid risk of shock and high heat from the 211 output tube.

**WARNING!**

Make no attempt to put the NVS-211SE in service with the chassis open! Contact with the high voltages found inside the chassis can be fatal! Remove the AC power plug from the wall and allow 30 minutes for the high voltage capacitors to discharge through bleeder resistors before attempting to change the tubes or to clean the inside the amplifier.

**CAUTION:**

Never remove or insert the AC plug when the unit is on or the AC power switch is in the "ON" position.

**Obstruction of the top portion of the amplifier will result in the tubes overheating.**

## Limited Warranty For Navison audio Components

**Navison audio design, inc.** will provide service under warranty to the original owner on products sold new in the United States for the lesser period of three years from the date of purchase by the original purchaser, or five years from the date of shipment to the authorized Navison audio dealer. During the warranty period, Navison audio will repair defective units without charge for labor or parts (with the exception of vacuum tubes and batteries).

**Exclusions.** The following are not covered under this warranty:

- a) Units which have been damaged by misuse, abuse, or accident.
- b) Units which have been modified, altered, or improperly repaired by anyone not specifically authorized by Navison audio design, Inc.
- c) Units not purchased from an authorized Navison audio dealer in the United States for use in the United States.
- d) Normal wear.
- e) Incidental or consequential damages are not covered under this warranty. Some states do not allow the exclusion of incidental or consequential damages, so this exclusion may not apply to you.

**Obtaining Warranty Service:** To obtain warranty service, the unit must be shipped, along with evidence of purchase, in factory packing to Navison audio design (or designated service center) with freight and insurance prepaid by the owner. After repair, the unit will be returned with freight and insurance prepaid by Navison audio design to any destination in the United States.

All implied warranties, including merchantability and fitness for a particular purpose are limited in duration to the duration of this express warranty. Some states do not allow limitations on the duration of implied warranties so the above limitations may not apply to you.

The warranty on the Navison audio of products is transferable to subsequent owners provided that the warranty registration card has been filled in and returned to Navison audio design, inc. within 30 days of the original purchase, and that the registered owner provides the factory with a signed notice giving model and serial number of the unit, and the new owner's name and address.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Navison audio products purchased outside the United States are covered by warranty terms of the importing distributor in the country in which the product was originally purchased, which may differ from the terms set out herein. Importing distributors are not obligated to provide warranty service for products originally purchased outside their country. Navison audio will provide warranty service for products outside the United States, but in these cases, the customer must pay all shipping, handling and customs costs both to and from our Service Department.

## Questions about this warranty should be addressed to

### Service Department

Navison Audio Design, Inc.  
1551 Shaw Drive San Jose CA 95118.

### The Navison audio service department can also be reached by

- Email: [custservice@navisonaudio.com](mailto:custservice@navisonaudio.com)
- Phone: 408-269-6800
- Fax: 408-269-6801

### Toll free number

- 1-877-NAV-IZON or (628-4966)

## Service

If your Navison audio component requires service, repack it using the original box and packing material and ship to the Service Department address above. Boxes and packing materials can be obtained from our service department for a nominal charge, if you no longer have yours. Include with the unit a note describing the problem you are having in as much detail as possible. It is especially important for our technician to know if the problem is intermittent. If you want an estimate of cost for out of warranty service, be sure to request it in this note. Be aware that requesting an estimate will delay service to your unit as we will have to contact you for your approval before commencing service.

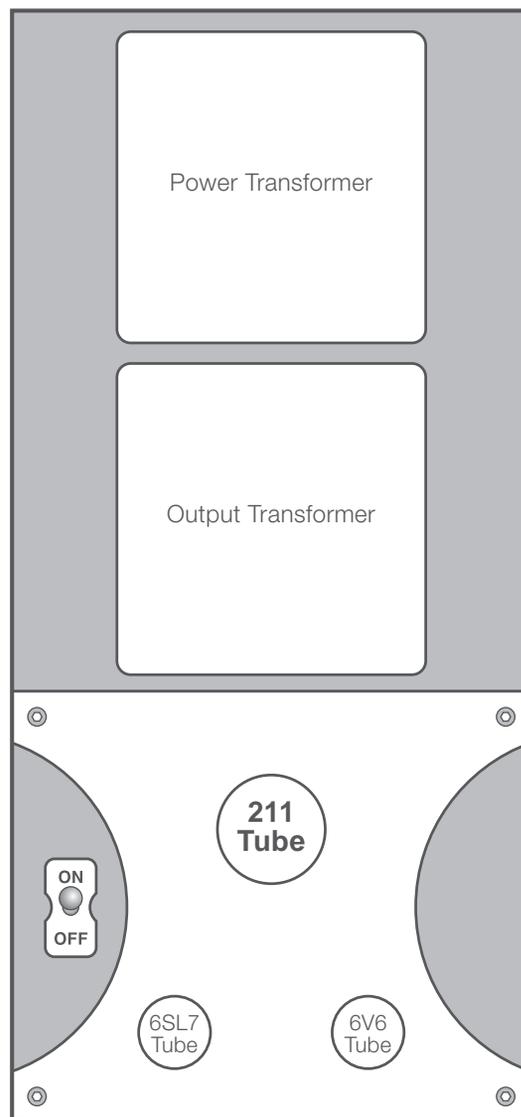
## Registering The Warranty

Please return the enclosed card to the factory within 30 days of purchase to register the warranty.

## Tubes Pin Placement Drawing

### PLEASE BE CAREFUL INSTALLING THE 6SL7 AND 6V6 TUBE!

You must be install the 6SL7 tube in left and 6V6 tube in right of the chassis! If you install the tube wrong it will certainly blow a Tube and it might damage the amplifier. Correct placement is easy after looking carefully at the pin sizes and the pin socket hole sizes in the tube socket.



Thank you for selecting the **NAVISON AUDIO**  
products for your audio system.

[www.navisonaudio.com](http://www.navisonaudio.com)