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## Book Descriptions:

# bose 1800 vi service manual

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated dangerous voltage within the system enclosure that may be of sufficient magnitude to constitute a risk of electric shock. Il simbolo del lampo con la freccia, racchiuso in un triangolo equilatero, avverte l'utente che all'interno dell'apparecchio vi sono parti non isolate sotto tensione di. The 1800VI amplifier is rated at 600 watts per channel into 4 ohms and 450 watts per channel into 8 ohms. In bridged mono operation, it is rated at 1400 watts into 8 ohms. The Bose Model 1600VI amplifier requires an average of 4.2 amps for 120V versions 2.2 amps for 230V versions. 4.5 Magnetic leakage considerations You can mount the Bose Model 1800VI or 1600VI amplifier without concern for magnetic flux leakage. Use shielded coaxial cable to conduct the signal from the source mixer, equalizer, CD player to the amplifier. Pin 1 is ground see Figure 3. Figure 3 Quick connect terminal block balanced input connection. To reference the input differential amplifier for the correct gain, short pin 3 to pin 1 see Figure 5. To reduce the sensitivity by 6 dB to 1.5V rms, simply remove JP100CH1 and JP200CH2, located on the main amplifier board see Figure 7. Figure 7 Input sensitivity modification. The greater the distance between the amplifier and the speakers, the larger the diameter the wire should be. This will minimize power losses across the wire and improve damping of the speaker. Wire thickness specifications gauges get larger as the wire gets thinner. A sample set up might involve one Model 1800VI amplifier driving two channels of 502A loudspeakers in stereo mode. A second Model 1800VI amplifier could be added to drive a 502B module. Refer to an authorized Bose Service next to the fuse holder. Center for evaluation. For more information, please read the warranty card. <http://djsjgs.com/uploadfile/20200907080120.xml>

- **bose 1800 vi service manual, bose 1800 series vi service manual, 1.0, bose 1800 vi service manual, bose 1800 series vi service manual.**

Service If you experience problems with your Bose Model 1800VI or 1600VI Professional Stereo Power Amplifier, contact your authorized Bose Professional Products dealer. The dealer will verify any defects and arrange for service. El 1800VI es un amplificador de dos canales de gran potencia que proporciona 450 vatios por canal sobre 8, 600 vatios por canal sobre 4, o 1400 vatios puenteado sobre una carga de 8. English. AtencionEnglishWhere to find.English. For the quick connect terminal block, use the female connector provided. Pin 3 carriesEnglishEnglishEnglishEnglishEnglishWarranty periodEnglishModel 1800VI amplifier sensitivity Model 1600VI amplifier sensitivityBose Corporation, The Mountain Bose s.p.A., Via della Magliana 876. The Mountain, Framingham. Search results for found ask for a document File Date Descr Size Popular Mfg Model Found in chassis2model Found in repair tips. Please do not offer the downloaded file for sell only use it for personal usage. Looking for other manual For this no need registration. May be help you to repair. You could suffer a fatal electrical shock. Instead, contact your nearest service center. Note! To open downloaded files you need acrobat reader or similar pdf reader program. In addition, Also some files are djvu so you need djvu viewer to open them. These free programs can be found on this page needed progs If you use opera you have to disable opera turbo function to download file. If you cannot download this file, try it with CHROME or FIREFOX browser. Translate this page Relevant AUDIO forum topics Bose Lifestyle CD20 FLC kijelzo halvany Sziasztok! A fenti keszuleknek halvany a kijelzese. Eleg erdekesen van megoldva a kijelzo tapfeszse, sokban fugg a bejovo 12VAC feszultsegtol. Kerdesem az lenne, hogy a futest probaljam emelni, vagy a 24Vot. A D8on a 30V is kevesebb, de az AC 4.5V is. Melyik befolyasolja jobban a fenyerot. <http://triodeindia.com/userfiles/89-mustang-repair-manual-pdf.xml>

A futes, vagy a negativ tapfesz Basszus vegfoka 23mp mulva megfut vagy pozitivba vagy negativba ha nincs a hangszoro rarakva, hangszoroval azonnal letilt, amikor a kimeneten eljut DC 4Vig a vedelem lekapcsolja relevel az erositot. Mikor a MUTE hibát kerestem, volt olyan eset is, hogy nem futott meg a kimenet es szolt a basszus rendesen, de ujboli bekapcsolaskor ha nem halkítottam le a potit akkor kikapcsolt a rele, ha lehalkítottam akkor jo lett, de nagyon susogott, arra hasonlított mint amikor FM radio nincs az allomason, van egy kozos mute tranzisztor az kapcsolja az osszes tobbit, ha azt kiszedtem akkor is megmaradt a susogas, szerintem visszafele jott valamelyik oldalrol ezert szedtem ki mindegyik oldalrol a tranzisztorokat, nem akartam bajlodni vele, hogy honnet jon a susogas vissza. Mi lehet a gond Bose Sounddock 1 tapegyseg csati Sziasztok. Egy barátom megkért, hogy talaljak vagy gyartsak egy tapegyseget a Bose dokkolohoz. Sajnos az eredetiket aranyarban adjak, igy gyartanom kell egyet. Talaltam is egy elegans kis 4 pines csatit, de fennakadtam az eredeti csatlakozó labkiosztasan. Talaltam egy rajzot de nem tudom eldönteni, hogy a kabelel levot abrazolja, vagy a dokkoloban levot. Ha valakinek dolga volt ilyennel, es tudna segiteni, kerem ne tartsa vissza magat. Koszonom.. BOSE bekotesi rajz Legyszi legyszi ha valaki tudnasegiteni egy BOSE AMP2440as erosito bekoteseben, azt nagyon szepen megkoszonem. Ez AUDI A3asbol van, a steker nincs meg. Similar manuals You can write in English language into the forum not only in Hungarian. One of these I replaced all 28 output transistors to the newer designation, better signal cable and output speaker cable. I believe the audio is cleaner, slightly tighter bass and mids. These amps have powered my 4 BOSE 901 speakers for years. Maybe it is time to upgrade. Comments To purchase 1800 spares or accessories, please contact the company via their website or visit an authorised retailer.

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Deze waarschuwingssymbolen bevinden zich op de achterkant van de Model 1800VI en 1600VI professionele stereo vermogensversterker. It is backed by state-of-the-art engineering and manufacturing techniques to bring you the best in quality craftsmanship and reliable performance. 2.1 Unpacking the amplifier Carefully unpack your amplifier. Page 7 7 English 4.0 Installation 4.1 Location and general precautions Locate the unit where it will not be exposed to rain or moisture. If fluid or a foreign object enters the unit, disconnect the power plug. Do not pull by the cord; grasp the plug firmly. Use shielded coaxial cable to conduct the signal from the source mixer, equalizer,

CD player to the amplifier. Page 9 9 English 4.0 Installation For the quick connect terminal block, use the female connector provided. Pin 1 is ground see Figure 3. To reference the input differential amplifier for the correct gain, short pin 3 to pin 1 see Figure 5. Page 11 11 English 4.0 Installation 4.7 Input sensitivity The amplifier input sensitivity is set to 0.775V rms for rated output. To reduce the sensitivity by 6 dB to 1.5V rms, simply remove JP100CH1 and JP200CH2, located on the main amplifier board see Figure 7. Page 12 12 English 4.0 Installation 4.8 Output wiring Use heavy gauge wire for speaker connections. The greater the distance between the amplifier and the speakers, the larger the diameter the wire should be. This will minimize power losses across the wire and improve damping of the speaker. Page 13 13 English 4.8.3 Bridged mono Figure 8 Bridged mono connection. Page 15 15 English 5.3.1 Power switch The power switch is used as a functional switch and should not be relied upon as a safety disconnect. 100 volt and 120 volt versions Press to turn the power ON or on STANDBY. When ON, the READY indicators will illuminate. For NORMAL STEREO operation, use CH 1 and CH 2 inputs.

If equalizer cards are installed, this signal has passed through the internal equalizer, but has not passed through the amplifier itself. Page 18 18 English 5.0 Operation 5.4.9 Speaker outputs Multiway binding posts connect the loudspeakers to the amplifier outputs. The black terminals are internally tied together and to signal ground. For more information, please read the warranty card. We should do this for several simple reasons First of all view first pages of the manual, you can find above. You should find there the most important technical data Bose 1800VI thus you can check whether the hardware meets your expectations. When delving into next pages of the user manual, Bose 1800VI you will learn all the available features of the product, as well as information on its operation. The information that you get Bose 1800VI will certainly help you make a decision on the purchase. You will learn then if you properly used the available features, and whether you have not made any mistakes, which can shorten the lifetime Bose 1800VI. Almost always you will find there Troubleshooting, which are the most frequently occurring failures and malfunctions of the device Bose 1800VI along with tips on how to solve them. Contact an authorized dealer or service center. Figure 3 Quick connect terminal block balanced input connection. For DUAL MONO or BRIDGED MONO operation, use CH 2 input only. For more information, please read the warranty card. This collection should help you to get through almost any Bose manufactured product. Please note, it took a lot of time to achieve such a compilation. Some of the scanned documents might not be the best quality but still are readable. Over 450 different documents sorted through four folders for easier trace. Please note. As the contents can be easily replicated, we cannot accept any returns as it will be a breach of safe trade policy. You are the light of the world. These are COMPLETE BOSE original manuals!!!

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make sure it didn't end up there. Please also check your spam folder. The lightning flash with an arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated dangerous voltage within the system enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

The exclamation point within an equilateral triangle, as marked on the system, is intended to alert the user to the presence of important operating and maintenance instructions in this owner's guide. Information about products that generate electrical noise If applicable, this equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. Estas marcas de ATENCION estan situadas en la parte posterior del amplificador de potencia estereo profesional Modelo 1800VI o 1600VI. El simbolo de relampago dentro de un triangulo equilatero indica al usuario que en el interior de la carcasa del sistema existen tensiones peligrosas no aisladas de intensidad suficiente como para representar un riesgo de sufrir una descarga electrica. El signo de admiracion dentro de un triangulo equilatero, como el que aparece marcado en el sistema, indica que en la guia del usuario se ofrecen instrucciones de manejo y mantenimiento importantes PELIGRO DE DESCARGA ELECTRICA NO ABRIR ATENCION PARA REDUCIR EL RIESGO DE SUFRIR UNA DESCARGA ELECTRICA, NO RETIRE LA CUBIERTA NI LA TAPA TRASERA. I simboli di AVVERTIMENTO qui riprodotti rappresentano i simboli che si trovano sul pannello posteriore degli amplificatori di potenza stereo professionale Modello 1800VI e Modello 1600VI. Il punto esclamativo all'interno di un triangolo equilatero, come presente sul sistema, avverte l'utente dell'esistenza di importanti istruzioni d'uso e di manutenzione contenute in questo manuale.

Italiano PRECAUCION ATENCION Deze waarschuwingssymbolen bevinden zich op de achterkant van de Model 1800VI en 1600VI professionele stereo vermogensversterker. Het uitroepteken in een gelijkzijdige driehoek, zoals op het apparaat gebruikt, dient om de gebruiker erop attent te maken dat deze gebruiksaanwijzing belangrijke instructies voor bediening en onderhoud bevat. LET OP Keep the original carton and packing materials for possible future use. Check for any visible signs of damage. If the amplifier appears damaged, do not try to use it. Notify the Bose Product Support or your authorized Bose Professional Products dealer. 3.0 The Bose Model 1800VI and 1600VI Professional Stereo Power Amplifiers The Bose Model 1800VI and 1600VI Professional Stereo Power Amplifiers are specially designed for professional sound applications. Their rugged construction and low profile allow each amplifier to sustain the abuses of the road with reliability and space-saving economy. Also, their accurate sound and ample power make these amplifiers ideal for critical studio applications. The 1800VI amplifier is rated at 600 watts per channel into 4 ohms and 450 watts per channel into 8 ohms. In bridged mono operation, it is rated at 1400 watts into 8 ohms. The 1600VI amplifier is rated at 325 watts per channel into 4 ohms and 240 watts per channel into 8 ohms. In bridged mono operation, it is rated at 700 watts into 8 ohms. The sophisticated protection circuits designed into each amplifier will protect your system from unexpected faults. They also protect each amplifier from excessive temperature, continuous current limiting, and shorted outputs. The balanced inputs of each amplifier use a high quality, high commonmode rejection differential amplifier for exceptional hum and noise rejection.

In addition, both the 1800VI and the 1600VI amplifiers are equipped with an input board that allows different equalization for each channel provided the correct equalization card is installed. A sample setup might involve one Model 1800VI amplifier driving two channels of 802 loudspeakers in stereo mode. A second Model 1800VI could be added to drive a 502B module. Alternatively, just one

amplifier could be used to drive the 802 loudspeakers on one channel and the 502B module on the other channel. Many configurations are possible using the four loudspeakers above. This flexibility can be achieved by installing the EQ cards for the desired setup.

## 2.0 Before You Begin

Do not pull by the cord; grasp the plug firmly. Place the unit where it will be protected from heat and allow adequate ventilation. Place it away from direct heat sources, such as heating vents and radiators. Use four screws with washers to prevent marring the front panel. Neoprene rubber washers are a good choice because they grip the screw head and prevent the screws from backing out in the event of vibration or if the unit is transported.

### 4.2.1 Rear support for road applications

If either unit is rackmounted and the rack is transported, you must mechanically support the rear of the amplifier. You can place a shelf across the rear of the amplifier or brackets in such a way as to support the rear of the unit. This practice is recommended for all electronic instruments.

### 4.3 Thermal considerations

When either amplifier is used freestanding, no thermal considerations are necessary other than keeping the ventilation holes open. If the unit is rackmounted, allow for adequate ventilation exits in front of and behind the amplifier. When several amplifiers are mounted together in a rack, you may need to provide air inlets from the outside of the rack. The unit is fan cooled. The fan is internally mounted so that it draws air in from the front and exhausts it out the rear.

This allows cool air from outside the amplifier to flow over and cool the power supply components located in front of the heatsinks. These amplifiers may be stacked directly on top of each other without spacer panels. If an amplifier is used with other amplifiers, be sure the heat output from each amplifier does not interfere with the ventilation of the others.

### 4.4 AC power considerations

Be sure to plug your amplifier into an outlet capable of supplying the correct voltage specified for your model. Check to be sure there is enough current to allow fullpower operation of all the amplifiers in your system. The power plug serves as the Main Disconnect device and should always be easily accessible after installation. The current demand of a power amplifier varies depending on the impedance of the load, the output level of the amplifier, and the crest factor and duty cycle of the program material. For example, consider typical conditions reproducing rock music, with both channels driven into 4 ohms to the point where musical peaks are just at the clipping point. The Bose Model 1600VI amplifier requires an average of 4.2 amps for 120V versions 2.2 amps for 230V versions.

### 4.5 Magnetic leakage considerations

You can mount the Bose Model 1800VI or 1600VI amplifier without concern for magnetic flux leakage. However, it is not a good idea to mount any power amplifier near a microphone input transformer or magnetic storage media. For the XLR, use a male XLR connector. Pin 1 is ground see Figure 2. Figure 2 XLR balanced input connection. Pin 1 is ground see Figure 3. If you are using the standard input module for either amplifier, the polarity of the balanced inputs can be reversed by changing four jumpers located on the input board, just behind the input connectors. If you are using the ACM1 module for either amplifier, the polarity cannot be reversed. The tip of the plug carries the signal and the sleeve is ground.

The ring connection in the jack is automatically grounded by the sleeve see Figure 4. Short pin 2 to pin 1 in order to reference the input differential amplifier for the correct gain see Figure 6. Figure 6 Quick connect terminal block unbalanced input connection.

## 4.0 Installation Note

The gain remains the same regardless of whether the input is balanced or unbalanced. To reduce the sensitivity by 6 dB to 1.5V rms, simply remove JP100CH1 and JP200CH2, located on the main amplifier board see Figure 7. Figure 7 Input sensitivity modification. The greater the distance between the amplifier and the speakers, the larger the diameter the wire should be. Wire thickness specifications gauges get larger as the wire gets thinner. So a 14gauge wire is thicker than 18gauge wire. Use the following chart as a guide.

Wire Length	Gauge of Wire
Up to 15	18 gauge
15 to 25	16 gauge
25 to 40	14 gauge
40 to 60	12 gauge
60 to 100	10 gauge
100 to 150	8 gauge
150 to 250	6 gauge

This will keep the resistance of the speaker wire to less than 5% of 4 ohms and the transmission loss to less than 0.5 dB. The multiway binding posts can accept spade lug, bare wire, or banana connections. Be sure all the fine strands of the wire are twisted together and contained within the connector. If

even one strand is loose and can touch the adjacent terminal, a short circuit may result. You must use Class I NEC wiring.

#### 4.8.1 Polarity

In order to have correct phasing between loudspeakers, you must connect them with consistent polarity. While incorrect phasing will do no physical harm, it will diminish your bass response. The key is to make sure both speakers are connected to the speaker terminals the same way. Connect the input signal to CH 2 input CH 1 input becomes disabled. Connect the speakers to the speaker outputs on the amplifier just as for normal stereo operation. Both speaker outputs will carry the signal connected to the CH 2 input.

Connect the input signal to CH 2 input CH 1 input becomes disabled. When connected in this way, each channel "sees" half the impedance of the speaker connected between them. If you use an 8 ohm speaker, each channel will see a 4 ohm load. Therefore it is not recommended that you use any load lower than 8 ohms in this mode of operation. Use parallel mono operation for lower impedances. Note Be sure to set both of the input level controls to the exact same setting for equal power distribution per channel. Switching the level defeat switch located on the amplifier to OFF will assure that both channels are operating at the same level.

#### 4.8.4 Parallel mono

Parallel mono operation is useful when running sustained high levels in a single load or when driving a low impedance load. It has no effect until the signal reaches the clipping point. The larger the input signal, the more it is reduced to keep the output just below clipping. The clipping eliminator circuit is operational at the point of manufacture. However, you can defeat it by using the clipping eliminator defeat switch. This switch is located on the rear panel of the amplifier. Moving the switch up will reengage the clipping eliminator. Note If you turn the input level down far enough, a sufficiently large input signal can drive the input differential amplifier into clipping. The clipping eliminator circuit cannot remedy this. It also has no effect on clipping that occurs prior to the amplifier inputs, such as at the mixer or equalizer. **CAUTION** In bridged mono operation, the output connections are actually a balanced output configuration. This means both output terminals have voltage present neither may be grounded. Then advance them slowly, one at a time, to verify that each channel is operating correctly. Set input level controls high enough to allow the preceding device to drive the amplifier to full output. Usually, this is wide open fully clockwise.

Mark down the settings, either on paper or selfstick dots attached to the front of the amplifier. In biamplified multiamp systems, start with the low frequency amps turned down or off. Each channel of the input module has its own equalizer card input connector, which allows different equalization for each channel provided the correct EQ card is installed. For a view of the input module, refer to Figure 10 on page 16. A sample set up might involve one Model 1800VI amplifier driving two channels of 502A loudspeakers in stereo mode. A second Model 1800VI amplifier could be added to drive a 502B module. Alternatively, just one amplifier could be used to drive the 502A loudspeakers on one channel and the 502B module on the other channel. Many configurations are possible using the four loudspeakers above. This flexibility can be achieved by installing the EQ cards for the desired setup. For a view of the ACM1 module, refer to Figure 11 on page 16.

#### 5.2.2 ACM1 amplifier control module

The Bose ACM1 amplifier control module is designed to establish network control of the Bose 1800VI or 1600VI amplifier. The module also provides amplifier monitoring capability. Using the graphical user interface of the ACM1 module software, settings like amplifier output, amplifier load, temperature, and clip levels can be checked routinely. Refer to the ACM1 installer's guide for complete installation instructions.

#### 5.3 Front Panel

1. Power switch
2. Standby LED
3. AC power fuse
4. 1 23 5

Figure 9 Front panel of the 1800VI amplifier generally identical to the 1600VI amplifier front panel

4. Level controls
5. Status indicators
6. Data receive indicator

6 When ON, the READY indicators will illuminate. In the STANDBY mode, the unit is off but can be activated through the SEQUENCE connector on the rear panel of the amplifier. Be sure all connections are made and double checked before switching the power amplifier ON.

Note Standby see above and Sequencing see below modes are activated at the amplifier only when

using the standard input module. For the ACM1 module, these modes are established via the network. For further detail, refer to instructions included with the network. 220/240 volt version This version has separate POWER and SEQUENCE switches on the front panel. Press the POWER switch to turn power on 1 or off 0. When the unit is off, no power reaches the unit and the sequencing function is not active. To use the amplifier in the normal mode, set the POWER switch on and set the SEQUENCE switch to the off position. The READY indicators will illuminate. To activate the sequencing function, the SEQUENCE switch must first be switched to the on position and then the POWER switch must be turned on. The unit will then be in a standby mode and can be activated by the sequence signal. See Section 5.4.8 for additional information regarding the sequence feature.

5.3.2 Standby LED Illuminates when the power switch is turned OFF to indicate the amplifier is connected to AC power and the amplifier can be powered up. When the power switch is ON, the standby LED turns off.

5.3.3 AC power fuse Protects the amplifier from catastrophic failures that could damage internal circuitry. Repeated fuse blowing is a sign of internal distress. When fully clockwise, the amplifier operates at maximum gain. Turning the controls counter clockwise attenuates the input signal. You can bypass the Level controls internally to lock the amplifier at its full gain capacity. See the Note about the level defeat switch on page 13.

5.3.5 Status indicators The ON LED illuminates green when the power is on and the amplifier is ready to operate. The ON LED illuminates red when the power switch is first turned on while the power supply is stabilizing prior to the speaker output relays switching in or when the amplifier is in protect mode.