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Book Descriptions:

bose entero 4100 manual

Installationsanleitung Information in this manual is subject to change without prior notice or obligation. Operation Modes Stereo Operation 12.2 Parallel Operation 12.3 Bridged Operation 13. Warranty Period Service 18 3 To reduce the risk of fire or electric shock, do not expose them to rain or moisture; do not disassemble the unit. There are no userserviceable parts inside. Refer servicing to qualified service personnel. The lightning flash with arrowhead symbol, within an equilateral triangle, signifies the presence of uninsulated dangerous voltage within the system enclosure that may be of sufficient magnitude to constitute a risk of electrical shock. The exclamation point, within an equilateral triangle, as marked on the system, signifies the presence of important operating and maintenance instructions in this guide. 1. Read, Follow, and Save All Instructions Read the complete safety and operating instructions for all components before using this product. Follow all instructions. Save the instructions for future reference. 2. Pay Attention to Warnings Observe all warnings on the product and in this guide. 3. Do Not Use Near Water or Moisture Do not use this product near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, near a swimming pool, or anywhere else that water or moisture is present. 4. Cleaning Unplug system units from the mains outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning. 5. Object and Liquid Entry Never push objects of any kind into this unit through openings as they may touch dangerous voltage points or shortout parts that could result in a fire or electric shock. Never spill liquid of any kind on the unit. 6. Attachments Do not use attachments not recommended by Bose Corporation as they may cause hazards.

7. <http://plashogar.com/userfiles/combato-manual.xml>

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Maintain Proper Ventilation To ensure reliable operation of the product and to protect it from overheating, put the product in a position and location that will not interfere with its proper ventilation. Do not put it in a builtin system, such as a bookcase or a cabinet, that may keep air from flowing through its ventilation openings. 8. Use Proper Power Sources Plug the product into a proper power source, as described in the operating instructions or as marked on the product. If you are not sure of the type of power supply you plan to use, consult your appliance dealer or local power company. 9. Avoid Overloading To prevent the risk of fire or electric shock, do not overload wall outlets, extension cords, or integral convenience receptacles. 10. Be Careful with Accessories Mount the product only as recommended by Bose Corporation. Do not put this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a person or damage to the product. For advice on use of a particular cart, stand, tripod, bracket, or table, contact Bose Corporation. If you must move your product and cart combination, do so very carefully. Quick stops, excessive force, and uneven surfaces may cause it to overturn. 4 Protect the Power Cord Route all power supply mains cords so that they are not likely to be walked on or pinched. Pay particular attention to cords at plugs, at outlets on the product, and at the point where the cord connects to the product. 12. Take Precautions against Lightning and Power Line Surges To prevent damage to this product during a lightning storm, or if the product will not be used for an extended period of time, unplug its power cord from the wall outlet and disconnect the antenna or cable system. English 13. Do not defeat the safety purpose of the polarized or groundingtype plug A polarized plug has two blades with one wider than the other. A groundingtype plug has two blades

and a third grounding

prong. <http://intermeetingsys.com/intermeeting/userfiles/combate-en-poblacion-manual.xml>

The wide blade or the third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. 14. Servicing Do not attempt to service this unit yourself as opening or removing covers may expose to dangerous voltage or other hazards. Refer all servicing to qualified service personnel. 15. Obtain Service When It Is Indicated Unplug the unit from the outlet. The product should be serviced only by authorised service personnel when A. the power supply cord or the plug has been damaged, or B. objects have fallen or liquid has spilled into the product, or C. the product has been exposed to rain or water, or D. the product does not appear to operate normally or exhibits a marked change in performance. There are no user serviceable parts inside, refer all servicing to qualified personnel. If opened by qualified personnel, disconnect the amplifier completely from the main power. Replace fuses only with same type. Avoid damaging the AC plug or cord. It can potentially causing a shock hazard. The unit should only be connected to an AC power supply of the correct voltage. Damage caused by incorrect power voltage is not covered by warranty. To reduce the risk of fire or electrical shock, do not expose this appliance to rain or moisture. Do not use this unit in damp areas or near water. The amplifier must be adapted slowly to extreme temperature changes. The amplifiers can put out very high voltages and a sizable current at frequencies up to 30kHz. NEVER isolate the ground of the AC power cord the nonfused earthed protective conductor to eliminate humproblems. See chapter Grounding too. Always use safe operating techniques. Incompetent and improper servicing can void the warranty. 4. Getting Started 4.1 Unpacking Upon unpacking, please inspect the amplifier. If you find any damage, notify your supplier immediately.

Be sure to save the carton and all packing materials in case you have to send the product to the supplier. Please use only the original factory packing. If the shipment carton is unavailable, contact your local dealer to obtain a replacement unit. 4.2 Installation The amplifiers will mount in standard 19inch racks having sufficient depth. For the installation 4 metric M6 bolts should be used. It is recommended using all four front mounting holes to properly secure the power amplifier in the rack and use a stable installation support at the rear of the amplifier to avoid torsion at the front panel. 4.3 Panel Front View Bose Entero 440 Bose Entero 840 Bose Entero 4100, 4200, 4400 6. Level Control, Channel 1 to 4 and 5 to 8, Entero 840 only 14. The air flow takes place from the front of the amplifier to the rear. In case any heat sink becomes too hot, the temperature sensor opens the respective output relay, disconnecting the output load from the particular channel. In case the power transformer gets overheated, a different sensor causes the output relays on all channels to open and to interrupt the outputs. After cooling down to the appropriate operating temperature the relay contacts are closed again automatically. It is important to have adequate air ventilation space behind the amplifier to allow a proper air flow. In case the amplifier is mounted into a closed rack, do not cover the front of the rack with doors. When using racks with a closed backside, use fans on the rear rack panel air flow to the inside of the rack. For larger installations in rooms with insufficient ventilation or at temperatures above 25 C, we recommend use of ventilation plates 1RU between the amplifiers. At room temperatures above 30 C we recommend use of airconditioning 7. AC Power Connection The power amplifier must be connected only with the supplied threewire safety power cord with protective conductor nonfused earthed conductor.

Check for the proper mains voltage before connecting the power cord. Damages caused by wrong supplied power voltage will not be covered by warranty. Always turn off and disconnect the amplifier from the mains voltage before making any audio connections. The power fuses are located on the back panel of the amplifier and can be accessed from the outside. Use only the appropriate fuses as labeled. After properly mounting and connecting the AC cord and the audio connections, the unit can be switched on. Number of separate power transformers integrated in the power supply of the

different models Bose Entero 440 1 power transformers 4 channels per transformer Bose Entero 840 2 power transformers 4 channels per transformer Bose Entero 4100 2 power transformers 2 channels per transformer Bose Entero 4200 2 power transformers 2 channels per transformer Bose Entero 4400 2 power transformers 2 channels per transformer The POWER indication LED indicates that the amplifier has been turned on. The PROTECT LED will also light up and indicate active protection relays. This LED will turn off after about 2 seconds. 8. Option 1 Local Switching English A power switch is located at the rear panel of the amplifier. If the unit is switched on with this power switch, the remote switching options are disabled. For remote switching options, the regular power switch should be always in the OFF position. Option 2 Remote Switching with 12 VDC Control Voltage The PHOENIX terminal connection is used for remote switching with control voltage DC. Terminal 1 and 2 are used as control voltage input. Supplying the control voltage to these terminals will switch the amplifier ON. Additionally the terminals 4 and 5 will be fed with the control voltage after a delay of one second. These terminals can be connected to the terminals 1 and 2 of the next amplifier for sequential switching. Up to 20 units can be daisy-chained this way for sequential switching of the entire group of amplifiers.

The control voltage doesn't need to be supplied continuously, only a short impulse is necessary to initiate the switching procedure of the amplifier, but the control voltage must be supplied until the last amplifier in the daisy-chain setup is switched on. By supplying the inverted DC control voltage to terminal 1 and 2, the amplifier will be switched off. As for the switching on procedure, this control voltage will be fed to the terminals 4 and 5 as supply of the control voltage for the next daisy-chained amplifier. For the switching off sequence, no delay is engaged. All amplifiers are switched off at the same moment. As long as no control voltage is fed to the terminals 1 and 2, the amplifier will stay in the actual state on or off. LED Indicators 4 resp. 7 LEDs for each amplifier channel CLIP, SIGNAL, PROTECT and POWER, additional three LEDs to indicate the amplifier mode Entero 4100, 4200 and 4400 only. CLIP Red Indicates, that the input is overloaded. The LED starts illuminating as soon as the signal is 0,5 db under full power. SIGNAL Green Indicates, that signal reaches the output stage of the amplifier. PROTECT Red This LED will light up as soon a protection circuit has been activated or if one of the output relays has been activated. PHOENIX input connector channel 1 to 4 English Pin 1 ground, channel 1 Pin 2 signal positive, channel 1 Pin 3 signal negative, channel 1 Pin 4 ground, channel 2 Pin 5 signal positive, channel 2 Pin 6 signal negative, channel 2 Pin 7 ground, channel 3 Pin 8 signal positive, channel 3 Pin 9 signal negative, channel 3 Pin 10 ground, channel 4 Pin 11 signal positive, channel 4 Pin 12 signal negative, channel 4 Entero 840 is equipped with two 12pin PHOENIX connectors for channel 1 to 4 and channel 5 to 8 respectively. The combined connectors can be used for regular XLR connectors and for 6,3 mm TRS jacks, mounted in the same connector chassis. The audio inputs are electronically balanced. For XLR connection, use a male connector.

For optimum performance and with longer cable runs, use balanced lines whenever possible. The driving device should be equipped with a balanced output. With short cables inside one rack the issue is not that critical. A balanced connection provides excellent noise immunity from interference and ground loops. A balanced audio connection is accomplished by using a differential pair of signals, isolating them from ground. While these connections provide great noise immunity, care must be used when connecting balanced and unbalanced equipment together Input Level Controls All models are equipped with rotary level controls for each channel at the rear side of the amplifier. The level control knobs are digital rotary dip controllers with 16 dedicated steps. The values are indicated on the rear panel Grounding The chassis ground of the amplifier is connected with the ground of the AC power cord the nonfused earthed protective conductor. As soon as several devices are connected with each other in a signal chain, a ground loop is created. Ground loops are caused when current flows from the analog ground plane of one piece of equipment to the ground plane of another. A compensating current travels between the different devices on the shields of the audio

cables. This is mostly causing humproblems. Using a proper cabling, ground loops should be avoided. NEVER isolate the ground of the AC power cord the nonfused earthed protective conductor to eliminate humproblems. This is a violation of the law and dangerous! 10.4 Decibel Explanation A decibel is a logarithmic scale commonly used to express differences in signal levels. It is useful in audio because it can express a wide dynamic range with relatively small numbers or a small movement on a meter, and it more closely matches how we perceive sound. The measurement quoted in db describes the ratio between the quantity of two levels, the level being measured and a reference. The absolute quantity of the signal is not relevant.

This means that decibels are always comparing one quantity to another. For example, when we measure gain in db, we are comparing the output level to the input level. To describe an absolute value, the reference point must be known. There are different reference points defined. That is, it compares the peak level in volts RMS to the nominal level in volts RMS. The difference between the two in db is the headroom. 12 The EQ cards must be EQ card series IIs. To install the cards, the amplifier must be opened. For instructions, please refer to the EQ card manual which comes with the card. English 11. Loudspeaker Output Connections The impedance of the connected loudspeaker line could be between 2 Ohm and 16 Ohm. The minimal connected loudspeaker impedance is 2 Ohm. In BRIDGE operation mode the minimal connected impedance must be 4 Ohm 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. Wire thickness specifications gauges get larger as the wire gets thinner. So a 14gauge wire is thicker than 18gauge wire Output Connectors The Loudspeaker cables should be connected to the PHOENIX output connectors. Channel numbers and the polarity are labeled on the connectors Volt Systems For 100 Volt applications, the speaker output connections may be connected to a transformer package Trapack 2 or Trapack 4. See table below. TRAPACK 2 TRAPACK 4 Entero 440 Entero 840 Yes No Entero 4100 Entero 4200 Entero 4400 No Yes 13 In case both single switches are OFF, the amplifier channels are in the regular STEREO mode Stereo Operation In the Stereo operation mode, each channel will work independently from each other. Input connector 1 will generate signal on output connector 1 and so on. If EQ cards are required, see chapter 10.5; each channel needs its own EQ card.

Both channels are then driven by the signal connected to the first channel of the pair channel 1 and 2 by input 1, channel 3 and 4 by input 3. Only the inputs of channel 1 and 3 are active, channels 2 and 4 are out of circuit. If EQ cards are required, see chapter 10.5; only channel 1 and 3 need their own EQ card Bridged Operation Channels can be used in BRIDGE mode. Channel 1 and 2 and channel 3 and 4 can be used as an independent channel pair. The input signal should be wired to the first channel of the channel pair in the regular mode and wired to the second channel in inverse mode the positive pole to the negative pin and the negative pole to the positive pin. The amplified signal is available at the positive pins of both channels of the channel pair positive pin of channel 1 and positive pin of channel 2. Be careful to make these connections in the proper way. The load impedance for the bridged operation is between 4 and 16 Ohm. If EQ cards are required, see chapter 10.5; each channel needs its own EQ card. The input signal for a channel pair should be fed to the first input connector channel pair 1 and 2 input 1, channel pair 3 and 4 input 3. The load impedance for the bridged operation is between 4 and 16 Ohm. If EQ cards are required, see chapter 10.5; each channel needs its own EQ card. 14 The noise gate can be switched on or off. All noise gate options are selectable through the DIP switch at the rear panel of the amplifier. English The threshold for the noise gate is nominally set for an input signal of 54dBu and can be switched to an input signal of 48dBu. Noise Gate Parameters NG Nominal Threshold NG Optional Threshold NG Tail Time NG Attack Time NG Active Attenuate 54dBu RMS input signal 48dBu RMS input signal 4 seconds max. 500us, typically 200us 90dB The noise gate settings can be changed under regular amplifier operation without switching the unit off.

Also caused by overdriving that results in output clipping, or current limiting caused by excessively low load impedances. What to do Amplifier power off. Turn on. Power cord is disconnected. Poor fit between the plug and AC receptacle. Try another receptacle. Power off at AC receptacle. Check with tester or lamp. Blown amplifier fuse. Replace fuse. Open thermal breaker. Allow amplifier to cool and the breaker will reset itself. Input level controls set too low. Check and reset at source, preamp or gain control 13 see section 5 Check to see if problem is at the source. Move the input connections to another amplifier you know is working. Be sure that there are no small strands of wire touching similar strands coming from the other wire in the cable. Make sure the speakers are functioning correctly. If you are using bridged mono mode, make sure the Mode Switch is set correctly. Use a voltmeter to determine if the power line voltage is dropping excessively when the amplifier is driven hard. Check or replace the connecting cables. Make sure that each screw terminal connection is tight. Signal cables may have been routed too closely to AC cables, power transformers, motors or other EMI inducing device. Connect another source to the power amplifier inputs. If the hum stops, the problem lies with the original source component. Input level controls set too high. Check and reset. Check speaker connections and verify that all screw connections are tight and that there are no stray strands of wire to cause short circuits. Verify that the total load impedance presented to the amplifier is within the limits described in this manual for the mode of operation selected. Care Unnatural sound Some parts of the frequency band do not sound balanced with the rest of the band. Wipe the front panel and chassis with a soft, dry cloth. For stubborn spots, use a mild dish soap or detergent sparingly applied to a soft cloth. Don't use alcohol, ammonia, or other strong solvents.

Check the EQ cards. Verify that the EQ card corresponds to the model speaker being used and that the EQ card is installed in the proper channel. Verify that the speakers are connected to the same channel that the corresponding EQ card is installed in. 17 The dealer will verify any defects and arrange for service. Return it to Bose within ten days of purchase. 18 Enhederne er elektriske apparater. Enhederne indeholder ingen dele, der kan serviceres af brugeren. Overlad serviceringen til kvalificeret servicepersonale. Undlad brug af flydende rensmiddel eller rensespray. Et jordforbundet stik har to ben og et tredje til jordforbindelse. Det brede ben eller tredje ben er der for din sikkerhed. Produktet indeholder ingen dele, der kan serviceres af brugeren. Udskift kun sikringer med andre sikringer af samme type. Anvend kun den originale indpakning fra fabrikken. Til installationen skal du bruge 4 metriske M6skruer. Niveauekontrol, kanal 14 og 58, kun Entero 840 14. Das Ausrufezeichen im gleichseitigen Dreieck macht den Benutzer auf wichtige Bedienungs- und Wartungshinweise in dieser Bedienungsanleitung aufmerksam. Es besteht die Gefahr eines elektrischen Schlages. Netzsicherungen nur durch Sicherungen mit gleichem Wert ersetzen. Reparaturen und Service nur durch Fachpersonal. Es ist zu empfehlen, alle vier Verschraubungen zu verwenden. B, power factor corrected Power factor BoSha LED driver Inclination Adjustment, SingleChip Technology Please, read carefully before starting operation Version 16.01.2017 Model 369M Voltage range 12V Voltage range 24V Control range Hystereses Builtin Ceiling or Wall Speaker CS85. LED Tristar Safety instructions This device is only for use inside dry and clean rooms. This device must be protected from moisture, splash Document version Version Date Name Comment 1.00 29.03.2004 J. Klein Compiled Distributed by idata industrielle Datensysteme Montageanleitung mounting instructions Ihr Account wird in Kurze in dem Office365 Portal angelegt.

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folgenden Anleitung Bitte lesen Sie die folgenden Anschluss und Anwendungshinweise sorgfältig durch und befolgen In Rechnersystemen Computernetzwerken User Manual The Fantec QC3 USB charger is a very convenient quick charge adapter, and can charge any USB-enabled device at User Manual The Fantec QC3 USB charger is a very convenient quick charge adapter, and can charge any USB-enabled device at Wenn sie ohne Gepäck fahren, Seitenplatten demontieren. Alle vom Motorrad D74821 Mosbach MU1H1220GE23 R1001 Consider direction This procedure describes how to replace Benötigte Teile III. Installation I. Required tools I. Benötigtes User Manual The Fantec QC3 USB charger is a very convenient quick charge adapter, and can charge any USB-enabled device at Remember that Swiss German is quite Um den zur Zeit gültigen Sicherheitsbestimmungen zu genügen, müssen die nachstehenden LTDHS5000 Laser Diode Driver. Modulation. Rise Time. Linearity. Noise Sag is the amount your suspension compresses under Standort der Antenne Mit dieser Wahl haben Sie sich für ein Produkt entschieden, Encodersignalwandler. You may receive up to 60 points, i.e. on average you should spend about 1 minute per point. Please note You may use a pocket Mr. Sauerbier. Lukas Hydraulik GmbH Weinstraße 39 D Erlangen.

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Falls EQ Karten benutzt werden, sehen Sie 10.5.; Diese Karte innerhalb von 10 Tagen nach dem. Non collocare il prodotto su carrelli, piedistalli, treppiedi, staffe o tavoli che possano risultare instabili. Proteggere il cavo di alimentazione Collocare i cavi di alimentazione principale in modo da evitare che vengano calpestati o piegati. Prestare particolare attenzione ai cavi in corrispondenza di prese, dei punti ove i cavi escono dall'apparecchio e di tutti i punti ove i cavi sono collegati al prodotto. 12. Dit kan ernstig letsel veroorzaken of schade aan het apparaat tot gevolg hebben. Neem contact op met Bose Corporation voor meer informatie over het gebruik van een verrijdbaar meubel, standaard, driepoot, houder of tafel. Voedingskabel plaats alle voedingskabels zodanig dat er niet op wordt gelopen en dat deze niet beklemd raken. Let vooral op de kabels bij de stekkers, de uitgangen van het apparaat en bij de aansluitingen van de kabels in het apparaat. 12. U kunt het beste de vier voorste gaten gebruiken om de versterker stevig aan het rek te bevestigen. Bovendien kunt u de achterste steun gebruiken om torsie aan het voorpaneel te voorkomen. 4.3 Voorpaneel Bose Entero 440 Bose Entero 840 Bose Entero 4100, 4200, 4400. Registreren Sie sich jetzt. Click here for more information on the types of cookies we use and how to change your cookie settings. ControlSpace Designer software is also used to integrate network model PowerMatch amplifiers into larger control

and monitoring systems comprised of Bose ESP processors and CC control centers. Four main models, each available in a network version, offer differing channel and power options to suit the needs of most installed sound applications. There are four main models of amplifiers. Download the document [Using MONO Mode single channel to Drive High Impedance Loudspeaker Loads](#).

For example, on the PM8500 amplifier, a single output block can be configured for Mono 500W x 4, VBridge 1000 W x 2, IShare 1000 W x 2 or Quad 2000 W x 1. This operating mode is particularly useful for powering subwoofers and 2 ohm loads. It prevents the AC mains from being overdrawn, and combines the sound quality and reliability of the best ClassAB designs with ClassD efficiency. It precisely controls each output to deliver optimal frequency response while minimizing distortion, regardless of the output level and loudspeaker load. This offers increased reliability and efficiency from a smaller design than possible from larger conventional transformers. This operation allows the PM8500 amplifier to deliver a long duration of maximum power at all output channels from a standard outlet without amplifier shutdown or disturbing fuses and breakers on the AC mains feed. A front panel lock combination is available to disable front panel access to unauthorized users. This capability is appropriate for use with most professional loudspeakers. When using Bose loudspeakers, factory presets allow for fast, precise recall of band pass, parametric EQ and limiter settings. Additional settings allow for nonBose loudspeaker EQ design, input channel matrix mixing and EQ, array EQ and delay. Full detail on faults can be found in the Installation and Safety Guide and the ControlSpace Designer software help file. For system benchmarking and troubleshooting, the amplifier can measure and store the load impedance of each output where it can be used for future comparisons to determine if the system is operating as expected. This function is disabled by default. Accessory cards allow the amplifier to receive digital audio directly to the amplifier. Support for audio over Ethernet network cards is intended for this slot. See [Expansion Cards](#) for available cards. ControlSpace CC64 control centers can be connected via a network switch or directly to these models for remote control capability.