

## 4 channel amplifier manual

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# 4 channel amplifier manual

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The S-Series models are based on Alpine's intelligent amplifier platform that ensures superior sound reproduction and precision imaging. With an improved heat sink, and protection circuit design that eliminates thermal shutdown, your music will keep playing no matter where your drive takes you. SA32F Owners Manual Find a Dealer Logo Alpine PRODUCTS Vehicle Specific Receivers Amplifiers Speakers Subwoofers Sound Processors Drive Assist Marine Accessories Rear Seat Entertainment Company About Press Releases Partnerships Careers Terms of Use Privacy Policy Cookie Policy Alpine Worldwide SUPPORT Service Centers Register Products Find Parts Owners Manual Search Contact Knowledge Center Service Center Support ALPINE APPROVED STORE LOCATOR Signup to get Alpine news. Hear it first! Arrow Signup to get Alpine news. Explore now Support Hi My Sony Sign in Favourites Newsletter Subscriptions Community Favourites Sign out Favourites Search Sony Sony Sites Search Sony To get the full experience on Sony.co.uk, please change your settings to allow JavaScript. Find information and receive instant notifications about your product. Please upgrade your browser to improve your experience. Skip to Navigation Main navigation About News Dealer Locator Become a dealer Support Brochures Contact Login or Register My Account Icon 0 Shopping Cart Icon Collections Pulse Slick OPTISOUND Black Air BlackDeath Cven Critical Link

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, isWarningThese limits are designed to provide reasonableThis equipmentHowever, there is no guarantee that interferenceThis device complies with Part 15 of the FCC RulesOperation is subject to the following twoThis transmitter must not be colocated or operatedUnder Industry Canada regulations, this radioYou are cautioned that any changes orImportant notice. CautionPlease check your vehicle operation manual orEmergency calls. This BLUETOOTH car handsfree and the electronicTherefore do not rely solely upon any electronicOn BLUETOOTH communicationIf you

have any questions or problems concerning Features. Table of Contents This unit has a builtin power regulator which This is to regulate This lightweight power supply system provides a highly Operation. Location and Function of Controls..... 5. Installation and Connections. Parts for Installation and Connections..... 6. Power connections..... 8. REMOTE connections..... 9. Input connections..... 10. Speaker connections..... 14 Pairing and connecting with a BLUETOOTH Connecting with a paired BLUETOOTH Playing a BLUETOOTH Device..... Configuring the DSP settings..... About iPod. Fuse replacement. Specifications. Copyrights. Troubleshooting..... Operation. Location and Function of Controls. Control panel side. Connector panel side. See "Troubleshooting" page 21 for solutions Press and hold for 2 seconds to enter the pairing Press and hold for 7 seconds to turn off the. BLUETOOTH functions BLUETOOTH off mode. When selecting the Resets the unit to the factory defaults the DSP Press with a pointed object such as a ballpoint Installation and Connections. Parts for Installation and Connections Boosts the frequencies around 40 Hz to a For a wired remote control not supplied. SPEAKER OUT section. POWER section GND ground earth terminal Installation. Connections Therefore, it Mounting the unit.

First, place the unit where you plan to install it, and Then drill a 3 mm Pass the wires through the cap, connect the wires, When you tighten a screw, be careful not to apply too Power connections Making power connections. Power connection wires not supplied are required. Fuse 60 AREMOTE connections. For the line input connections page 10, Connect the remote out REMOTE OUT from your When your car's ignition has an ACC Connect the remote out REMOTE OUT from your When your car's ignition has no ACC Connect the remote out REMOTE OUT from your Sky blue If your car audio unit has no REMOTE OUT. Connect the high level input connector .If your car audio unit has no REMOTE OUT. Connect the ACC terminal to the ACC power line, ACC power line via the high level input connector Sky blue Input connections. Set the SELECT switch to the appropriate position Mode. For BLUETOOTH Device" page 16. Before setting, With the speaker connection page 14 Setting the sensitivity "2V" or "5V" of the When using a car audio unit with a high With the speaker connection. With the speaker connection page 15. RCA splitter cable SUB AUDIO IN of this unit does not support stereo Note. When making this connection, set the SELECT switch to With the speaker connection page 14. With the speaker connection. White. Front speaker White. Front speaker Gray. Front speaker Green Purple. Brown. Sky blue. Rear speaker Subwoofer If subwoofer outputs are not equipped to your car High level input cord connection. Connect the cords properly to speakers. With the speaker connection page 15 Fr tpu Fr tpu Gr Gr Gr Br Pu Br ripe FR Front speaker right. RL Rear speaker left. RR Rear speaker right SL Subwoofer left Sk. FL Front speaker left. SR Subwoofer right Br ripe Speaker connections. Set the HIGH PASS FILTER switch, FILTER switch and. LOW PASS FILTER switch on the control panel to the Also, refer to the manual supplied with your With the input connection. Tweeter min. 4 . Woofer min. 4 With the input connection. Front speaker min. 4 Note.

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When making this connection, set the filter switches to Subwoofer min. 2 . Notes Center" application. With the input connection page 11. Using Sony 3 Way Component Speaker System. XSGS1631C is recommended. Tweeter min. 4 . Midrange speaker min. 4 Before connecting the device, turn down the Pairing and connecting with a. BLUETOOTH device. Woofer min. 2 . Note. When making this connection, set the filter switches to When connecting a BLUETOOTH device for the first Place the BLUETOOTH device within 1 m Press and hold PAIRING for 2 seconds. Speaker cord connection. The FL Front speaker left. FR Front speaker right. RR Rear speaker right. Perform pairing on the BLUETOOTH If your model name does not appear, repeat When pairing is made, the If passkey input is required on the Select this unit on the BLUETOOTH device The Note. While

connected to a BLUETOOTH device, this unitTo start playback. To adjust the volume. For details, see "Playing a BLUETOOTH Device"Android smartphone, or adjust the sound settings. To disconnect the paired device. Perform step 2. Connecting with a paired BLUETOOTHTo use this unit with BLUETOOTH, connection with aSome paired devices willTo switch to the line input connection in 2chTo turn off the BLUETOOTH functions. Press and hold PAIRING for 7 seconds. The BLUETOOTH pairing information stored on theTip. If the car's ignition is turned off while the BLUETOOTHOperate the BLUETOOTH device to make the. BLUETOOTH connection with this unit page 15. Playing a BLUETOOTH Device. You can play contents on a connected BLUETOOTHAudio Distribution Profile.To play the BLUETOOTH device, installing the. Android smartphone is required. Center" application from the App Store for iPhoneOperate the BLUETOOTH device to makeStart up your audio playback applicationOperate the BLUETOOTH device to startSettings. DSP Settings. You can configure the DSP settings using theAndroid smartphone. Music Center" application is required from the App.

Store for iPhone or from Google Play for AndroidNotesFor iPhone visit the App Store. For Android smartphone visit Google Play. About the "Advanced car audio setting"Downloading the latest version of the "AdvancedApp Store for iPhone or from Google Play for. Android smartphone.Make the BLUETOOTH connection withAndroid smartphone, see the Help of theIf the device number appears. Make sure that the number is displayed e.g.,Configuring the DSP settings. Music Center" application, then touch. Tap the desired setup item, then makeThe following items can be set. Equalizer equalizer. Selects an equalizer curve from 10 equalizerThe equalizer curve setting can be memorizedAlso, using aListening Position listening position. Additional Information. Precautions. Simulates a natural sound field by delaying theAdjust Position adjust position. Subwoofer Position subwoofer position. Balance balanceFader faderSubwoofer Level subwoofer levelDoing so may damage the active speakers.Do not attempt to test theThis amplifier is provided with a protection circuit thatIf you have any questions or problems concerningAbout iPod. MaintenanceUpdate your iPod devices to the latest softwareCompatible Model. When replacing the fuse, be sure to use oneIf the fuseIn such a case, consult yourApple is not responsible for the operation of thisPlease note that the use off you have any questions or problems concerningSpecificationsPower Output 45 Watts RMS 4 at 4. Ohms, 90 Watts RMS 2 at 4 Ohms PDF Version 1.3. Linearized No. Has XFA No. Producer Acrobat Distiller 10.1.9 Windows. Trapped False. Creator Tool PScript5.dll Version 5.2.2. Title XMGS6DSP. Creator Sony Corporation. Version ID 1. Document ID uiddc389ebdf1b84c12870c1b4eee2c2410. Instance ID uuid231957f32ee14c79913e124074c32e71. Page Count 23. Author Sony Corporation. The amplifiers of the D series are solely modest with. more The amplifiers of the D series are solely modest with respect to pricing.

Everything else is thoroughly pure HELIX quality without any compromises. Loads of power, excellent measurement data and a whole bunch of features ensure a pristine and crispy sound experience! It is even possible to add an optional volume remote control for the amp channels C and D which is very useful if those outputs are firing a subwoofer. The elegant design not only states right from the beginning the amps heritage but also allows an easy integration into your car thanks to its compact dimensions. That is soundtuning at its best! Smart highlevel input with ADEP circuit Advanced. more If a common amplifier will be hooked up failure messages and loss of specific features e.g. fader function quite often appears but not with the D FOUR. The new ADEP circuit Advanced Diagnostics Error Protection avoids all these problems without loading the speaker outputs of the OE radio during high volumes unnecessarily. Add additional amplifiers with minimal wiring thanks to the Aux output RCA's and you can even stream Bluetooth directly to this mighty amp just by adding an iSimple ISBT23 Weather Proof BT receiver to your setup. Built for audiophiles by audiophiles our products span infotainment and radio upgrades, audio upgrades and all the installation accessories to make those enhancements easy. To get the full experience on Sony.co.uk, please change your settings to allow JavaScript. Please select another language. Where can I buy



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Please turn it on so that you can experience the full capabilities of this site. Low level input is made via standard RCA connectors and high level inputs made via a supplied Molex connector and harness. This allows the GXA602 can be used as a an amplifier to drive full range speakers or as a subwoofer amplifier. Low level input is made via standard RCA connectors and high level inputs made via a supplied Molex connector and harness. This allows the GXA602 can be used as a an amplifier to drive full range speakers or as a subwoofer amplifier. In order to add spare parts we have to empty your current cart. In order to add new products we have to empty your current cart. If you continue without changing your cookie settings, we assume that you consent to our use of cookies on this device. However, it is possible to wire a 4 channel amp to 4 speakers and a sub. I've put together some really detailed information to help make this as painless and inexpensive as possible. Read on to find out how. There are plenty of detailed diagrams to guide you, too. Contents What you need to know first What does the minimum impedance Ohms rating mean for an amp. Testing speaker ohms with a multimeter What is "bridging" an amp. Why is this best for driving a subwoofer. What if my amp can't be bridged. How to connect a 2 ch. To drive 4 speakers and a sub with a single 4 channel amp you'll have to make a few compromises. Most but not all car amps today can handle speaker loads down to 2 ohms. If yours doesn't, you'll need a workaround I'll show you. You may need a few extra parts. Driving 4 speakers from 2 channels means the speakers are sharing the amp's power, so you'll have less power available to each of those. That being said, don't worry too much. What does the minimum impedance Ohms rating mean for an amp. Image showing a typical 4 channel amplifier's minimum speaker load Ohms rating.

Most car amps today have a minimum of 2 ohms per channel in standard stereo use and 4 ohms minimum when bridged. Never run an amplifier with a speaker load that's lower than the rating. Your amp will run hot and possibly become damaged. Today's 4 channel and other car amplifiers have a minimum speaker load they can handle. The speaker impedance or "Ohms" rating of a speaker also called the speaker load is the resistance to the flow of electrical current that the amplifier sees at the speaker terminals. Amplifiers are designed to handle a minimum speaker load. The rating shown on the amp or in the owner's manual serves as a warning. If you connect a speaker load below the amp's minimum rating it can get hot and even become permanently damaged at some point. I've seen this happen when people try to "get more power" by incorrectly wiring speakers to an amp. Don't do it! Burning out your amp's output stages is not a nice surprise. Minimum speaker loads for wiring a 4 channel amp to 4 speakers and a subwoofer Diagram showing how a car amplifier's Ohm rating works with speakers. Speakers are usually connected in series or parallel well, really, most often in parallel which affects the total resistance an amp will see. That's important because amps are designed for a certain minimum speaker load Ohms rating. The real answer, however, is that it depends on your amp's ratings. Always be sure to check to be sure. Maybe you've got an older amp that's been sitting around unused. If so, you'll be glad to know there's a workaround that I've come up with that will let you wire your 4 speakers up without damaging your amp. 4 Channel Amp Wiring Examples Here are the speaker wiring and speaker Ohms loads possible for nearly all amps you'll run across. I'll describe 3 main system setups which I'll cover in detail. This is the first and best choice for most modern 4 channel amps. Because these kinds of amps can't handle a 2 ohm load, it's a bit harder and needs a different approach.

Testing speaker ohms with a multimeter Shown An example of how to measure speaker impedance

Ohms with a multimeter. It's a great way to know for 100% sure what kind of speakers you're dealing with to avoid problems with your 4 channel amp. Car stereo and home speaker speakers are very similar except for the impedance rating they use. A speaker's impedance value, measured in Ohms, is just the total measurement of electrical resistance the amp will see from the speaker's voice coil. Partly due to tradition in the electronics world and partly due to various other electrical reasons car stereos are commonly rated at 4 ohms and home stereo speakers around 8 ohms. The good thing is that all you really need to know is roughly what the resistance of a speaker is. If you can measure that you can tell what Ohms rating to go by. How to measure speaker Ohms with a multimeter To measure the Ohms resistance of a speaker's voice coil, hold the meter probes to the speaker terminals, making sure to keep firm contact to bare metal Paint, insulation, dirt, and solder flux can mess up your reading otherwise. For example, we usually have a label on a speaker telling us if it's 2 ohms, 4 ohms, and so forth. Measuring speaker Ohms with a multimeter Set the multimeter to the Ohms setting. If the meter has an autoranging function you should be fine. Otherwise, set it to the lowest setting like the 10 Ohms or 200 Ohms range, etc. With the speaker disconnected, touch the speaker terminals with the meter probes. Be sure to touch bare metal on the terminals and make good contact. Read the measured value. The general range will tell you the Ohms rating of the speaker Example 3.6 ohms resistance would mean a 4 ohm speaker It's important to be sure you're not measuring across substances that can interfere with your measurement. Things like the following can cause problems I have seen this happen many times!

Leftover solder flux or solder coating from manufacturing Heavy oxidation Heavy dirt, dusty, or other contaminants that build up over time Paint or other coatings that don't conduct electricity If in doubt, you can rub them gently with a bit of sandpaper or even scratch the meter probes against the terminals to make better electrical contact. Note If a speaker is "blown" or burned out from abuse or physical damage to the voice coil you'll never get a reading. That's because for blown speakers the voice coil no longer has a complete electrical path you can measure. Multimeters show an open circuit condition as "infinite" Ohms, which just means there's no reading to be made. Speakers don't measure exactly 4 or 8 ohms! Car and home speakers are rated by their general Ohms impedance rating. For example, 2, 4, and 8 ohm speakers are never measure exactly with those Ohm measurements. That's because each speaker's design is a bit different from the next. The resistance you measure from a speaker is due to the voice coil's resistance thanks to the long wire it's made of. Here's an example chart to help you know what to expect when measuring speakers. Speaker Rating Typical Measurements 2 Ohms 11.8 Ohms 4 Ohms 3.23.6 Ohms 8 Ohms 6 Ohms or more 16 Ohms 12 Ohms or more As you can see, you won't measure exactly 4 ohms for a 4 ohm speaker. It will be in the general range and close to its advertised rating, however. What is "bridging" an amp. Shown Example of a 4channel amp bridged to 2 channels. Bridged mode mono mode is a builtin amplifier feature in which a "pushpull" set up is created one channel normally used for the left speaker produces a signal that's the opposite of the second channel normally used for the right speaker. When this happens the result is that you'll get substantially more power with them working together than you would with one channel alone. Bridged mode is a flexible way to get more power from 2 channels in this case the rear channels, for example.

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