

HIGH-PERFORMANCE CAR-AMPLIFIER

OWNER'S MANUAL





X-330.2

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FEATURES

Congratulation on your purchase of your new X SERIES amplifier.

IMPORTANT: Before installation your power amplifier, we recommend to read the owner's manual carefully and to follow the instructions regarding connection and fitting exactly.

ATTENTION: Pay attention to advices and instructions of the car manufacturer.

<u>IMPORTANT:</u> Your proof of purchase is evidence of warranty claim for repair or replacement. Keep your proof of purchase, manual and original packaging.

<u>ATTENTION:</u> Use of sound components can impair your ability to hear necessary traffic sounds and may constitute a hazard while driving your automobile.

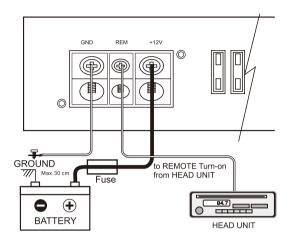
AUDIO SYSTEMGERMANY accepts no liability for hearing loss, bodily injury or property damage as a result of use or misuse of our products. We recommend installing the equipment by an authorized service center or dealer. A professional fitting and connection is the requirement for further warranty and perfect sound.

X-330.2

- 2-Channel High Power Class-AB amplifier with SMD technology
- MOS-FET Power Supply
- Stable into 1 ohm stereo per channel and 2 ohm bridged mode
- Variable switchable Low Pass Filter from 45 to 4500 Hz
- Variable switchable High Pass Filter from 20 to 4500 Hz
- Variable switchable Band Pass Filter from 20 to 4500 Hz and from 45 to 4500 Hz (LPF)
- **FSA** Front Stage adjuster for analog phase correction for the left front channel
- High-Level-Input with automatically "TURN ON"
- 2-Channel RCA-Inputs
- High-quality space-saving connection terminals
- Input Sensitivity: variable 200 mV maximum to 8 V minimum
- Multi-Way Protection Circuitry: overheating, overcurrent and short circuitry
- Operating Voltage: DC 10 ~ 16 V Power Input
- Massive heavy aluminum-heatsink
- 3-step ON TOP ventilation system with 4 High Performance Fans
- Wired Remote Controller RTC (Optional)



X-330.2



1. Battery disconnection:

First, disconnect the power supply of the vehicle by removing the ground cable of the battery.

2. Ground connection:

Connect the GND (ground) connection of the amplifier with the car chassis. Keep this cable as short as possible (not longer than 50 cm) and use a suitable cross section (AWG size 7-5).

Make sure, that the connection with the vehicle chassis is free of paint, dirt and dust.

3. +12 V Power connection:

Connect the +12 V contact of the amplifier with the supply cable via a fuse directly to the vehicle battery. Keep in mind, that the length of the cable from fuseholder to vehicle battery has to be maximum 30cm. For the amplifier to function at its best, use a high quality fuse holder and suitable cable preferably AWG 7-5 cable. This fuse protects the amplifier and the vehicle against the possibility of a short circuit in the power cable.

4. Remote connection:

Connect the REM-terminal of the amplifier to the remote-output (automatic 12 V antenna-output) of the head unit. Use a 0,5 - 1,5 mm² power cable.



ATTENTION

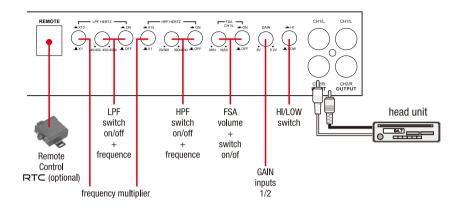


Please follow the instructions during the installation of your amplifier:

- a) Take care of a professional attachement. Pay attention, that no electrical cable, gas tank, hydraulic breakes or other components get damaged.
- b) There has to be enough cooling and air circulation. Avoid the installation in small closed boxes or close to heatening parts.
- c) Protect the amplifier from fluids, wetness, heat and foreign material as well as from other influences.
- d) The amplifier is only to be built into vehicles with a 12 V DC power supply.
- e) Never install the power supply cable with other original wires of the vehicle (gas cables), fan motors, brand control moduls etc.
- f) Install the signal cable (cinch cable) as well as the speaker cable far away of the power cables to avoid troubles with the music signal.
- g) The cables of your amplifier have to be installed, so that there is no danger of binding, squeezing or breaking.

RCA CONNECTION

X-330.2



The X SERIES amplifiers have RCA inputs, which are connected by cable with RCA preamplifier outputs of the controller.

If this is not possible (usually with an original radio, OEM), the speaker outputs of the car radio can be connected directly to the RCA / RCA inputs of the amplifier. The Input Mode must in this case be switched to "HI". When signal is applied, the amplifier turns on automatically.

It is important that the gain pots are first set to minimum and turned up carefully when handling.

As accessories can be purchased in stores the adapter cable and RCA HLAC III. With the help of the variable high-pass filter (HPF), low pass lifter (LPF), FSA (Front Stage Adjuster - analog Time Delay on channel 1) and the gain controller can be the final stage in his personal tastes, to the characteristics of your vehicle and on the speakers individually set to.

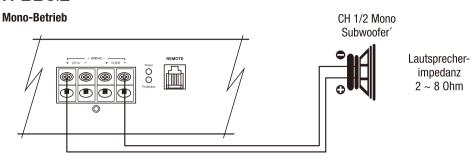
Another additional module is the RTC, which allows you to adjust the subwoofer via remote control.

Note: The remote control RTC works only when the low pass filter (LP) is switched on.

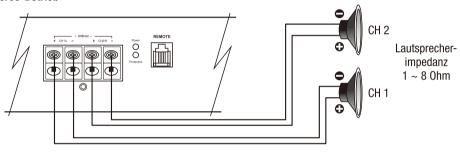
AUDIO SYSTEM GERMANY, recommends that you leave your amplifier set by a specialist company, specialist dealer or a specialist to meet your needs.

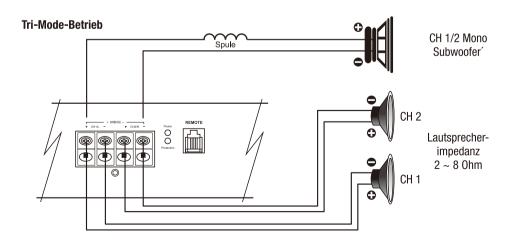
SPEAKER CONNECTION

X-330.2



Stereo-Betrieb





TROUBLE SHOOTING



This power amplifier is featured with an efficient protection system to prevent any damages like over-heating, overvoltage, short-circuit and DC at the loudspeaker output.

Occuring an error the protection-LED will light in red. In order to check the problem, first turn down all levels of the head unit, afterwards turn it off.

AMPLIFIER IS NOT POWERED UP, NO LED IS LIGHTENING	 ground connection professional connected? +12V powercable professional connected? remote cable professional connected? fuses inserted and alright? analyze voltage on the amplifier.
PROTECTION LED ILLUMINATES GREEN WHILE AMPLIFIER IS SOUNDLESS	 cinch cable alrith and professional connected loudspeaker professional connected? head unit alright?
PROTECTION LED ILLUMINATES RED WHEN AMPLIFIER IS POWERED UP	 amplifier too hot? short-circuit at the loudspeaker output? short-circuit caused by loudspeaker cable with vehicle chassi (ground)? input voltage too high (e.g.faulty generator)?
OVERHEATING (PROTECTION LED ILLUMINATES RED WHEN AMPLIFIER IS POWERED UP)	- impedance alright? - loudspeaker error? - adequate airflow of the amplifier? ! CAUTION!
	After cooling down, the amplifier turns on automatically.
ERROR IN AMPLIFIER FUSE	- ground professional connected? - loudspeaker impedance alright? ! CAUTION! Make sure when changing fuses to use the same value.
ERROR IN AMPLIFIER FUSE SOUND TOO LOW OR LOW-DISTORTED SOUND	- ground professional connected? - loudspeaker impedance alright? ! CAUTION!

A ATTENTION **A**

Please contact your specialized dealer if the amplifier is still not working after it has been checked with the error list!

For warranty adjustement / repairs the original invoice has to be attached!

Opening the power amplifier is leading to a lost of warranty in either case!



Dimensions

SPECIFICATIONS

580(L)x 50(H)x 185(W)mm

2-CHANNEL AMPLIFIER	X-330.2
Power Supply Voltage	10 -16 V
Rated Power Output at 14,4 V	
-RMS power @ 4 ohm stereo	2x 330 W
-RMS power @ 2 ohm stereo	2x 550 W
-RMS power @ 1 ohm stereo	2x 825 W
-RMS power @ 4 ohm bridged	1x 1100 W
-RMS power @ 2 ohm bridged	1x 1650 W
Signal to Noise Ratio	> 100 dB
Low Pass Crossover	45 Hz ~ 4500 Hz
High Pass Crossover / Subsonic Filter	20 Hz ~ 4500 Hz
Frequency Response	10 Hz ~ 85 KHz (+/-1dB)
THD@RMS Watts	< 0.018%
Channel Separation	75 dB
Fuse Rating	5x 30 A
Input Sensitivity	200 mV ~ 8V (+/- 5%)



AUDIO SYSTEM GERMANY FALLTORSTRASSE 6 - 76707 HAMBRÜCKEN