

since 1988

**AUDIO**  
**SYSTEM**

*german sound*

## HIGH LOW CONVERTER

MANUAL

# ZEN SERIES

ACCESOIRES



HLC 2 EM HYUNDAI 73  
HLC 2 EM QUADLOCK 40  
HLC 2 EM POWER QUADLOCK 52



DESIGNED AND ENGINEERED BY AUDIO SYSTEM GERMANY

## **Congratulation on your purchase of your new Z SERIES Adapter.**

**IMPORTANT:** Before installation of your High Low Converter, 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.

**Important:** Your proof of purchase is evidence of warranty claim for repair or replacement. Keep your proof of purchase, manual and original packaging.

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

**AUDIO SYSTEM GERMANY** 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.

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## **HLC 2 EM**

- 2-Channel High-Low-Adapter
- Connectable to OEM-amplifiers up to 100 W RMS by **HPI-technology**
- Connectable to all OEM-headunits
- Prohibit disturb signal and power up noise
- Generate a turn-on signal(Remote) over BTL or Signal Recognition (**SE-circuit**)
- Integrated turn off for Signal Detect (**SE**)
- Outstanding sound quality
- 5-Volt preamplifier technology (RCA couplings)
- Automatic detection of SE- or BTL-mode
- Very fast and correct music recognition (**SE and BTL-technology**)
- Advanced speaker load simulation with forward-looking **PRS-circuit**



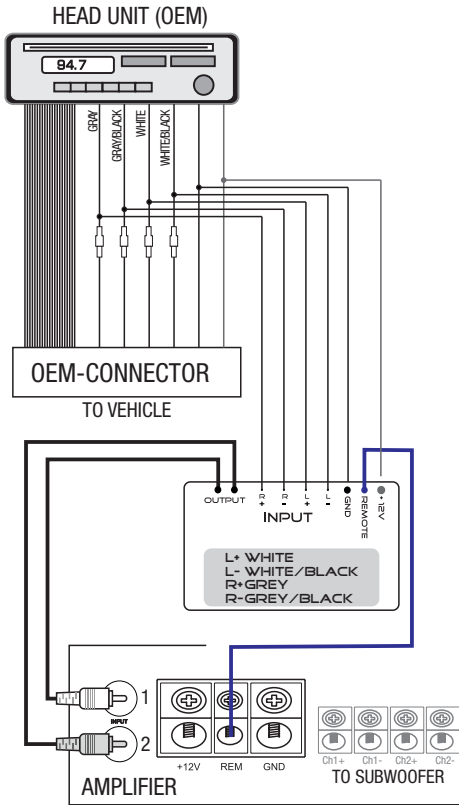
### **ATTENTION**



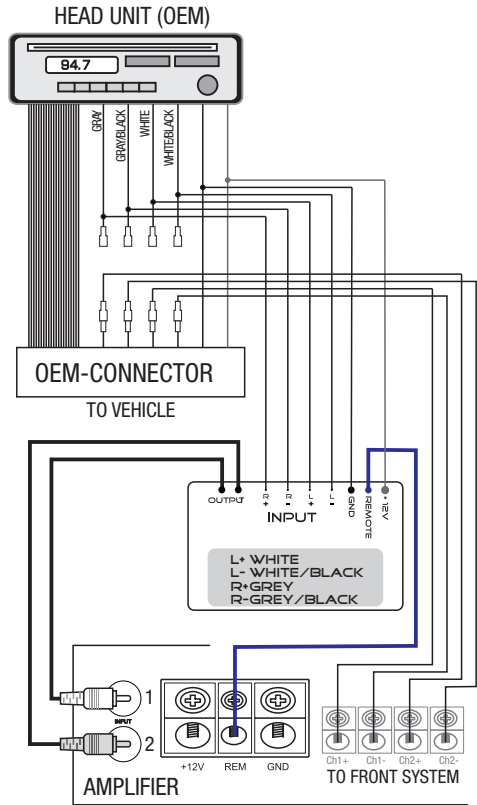
#### **Please follow the instructions during the installation of your High-Low-Adapter:**

- a) Take care of a professional attachment. Pay attention, that no electrical cable, gas tank, hydraulic brakes or other components get damaged.
- b) Protect your **HLC 2 EM** from fluids, wetness, heat and foreign material as well as from other influences.
- c) The High-Low Adapter is only to be built into vehicles with a 12 V DC power supply.
- d) Never install the power supply cable with other original wires of the vehicle (gas cables), fan motors, brand control moduls etc.
- e) 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 **HLC 2 EM** have to be installed, so that there is no danger of binding, squeezing or breaking.

## SUBWOOFER



## FRONT-SYSTEM



### ATTENTION:

#### 1. Battery disconnection

First disconnect the power supply of the vehicle. This works out the best by removing the ground cable of the battery.

#### 2. C connection

Disconnect main connector from headunit. Connect this connector to fitting counterpart of HLC2 EM wiring harness. At last connect the remaining connector to headunit.

#### 3. Remote connection

Connect the REM-terminal (blue) of the HLC 2 EM to the remote-input of the amplifier. Therefore use a 0.5 - 1.5 mm power cable. The amplifier turns on as soon as music signal is generated at the input of the High-Low Adapter.

#### 4. Output

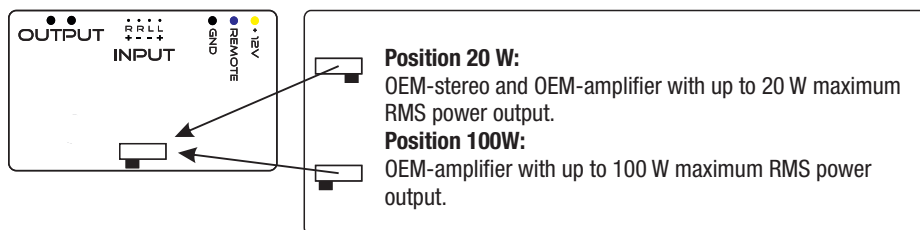
The RCA(Cinch)-outputs of the HLC 2 EM have to be connected to the RCA(Cinch)-inputs of the amplifier. **Important** in this respect is, that first the **gain-control** of the connected amplifier is **put to minimum**. Turn up only if necessary.

#### 5. Variants Subwoofer and Front-System

The HLC 2 EM can be used for connecting a subwoofer- and/or front-system amplifier. Both connection variants are shown above.

In this regard, **AUDIO SYSTEM GERMANY** recommends to adjust your amplifier through a specialized service center, dealer or a specialist.

You can adjust the **HLC 2 EM** to different source power outputs of OEM stereo or OEM amplifier thanks to HPI-circuit. Position 20 W is suitable for most OEM stereos and most of OEM amplifiers. However, some special OEM-amplifiers deliver more than 20 W RMS output. You have to switch to 100 W position in this case. Attention: If you are not sure about output power of you OEM system ask a dealer or specialist, please.



The **HLC 2 EM** has an automatic signal detection circuit (**SE-technology**). It is automatically used if OEM stereo doesn't use BTL amplifier topology.

If using signal detection to turn on, **HLC 2 EM** will switch off remote by a pre-defined time delay. This is necessary to avoid switching off in low volume passages in music or speech.

The **HLC 2 EM** uses an advanced speaker load simulation technology called **PRS-technology**. It is always present and is for avoiding fault code messages and switch off situations of speakers by OEM stereo due to error checking techniques of OEM-amplifier.

Power Supply Voltage	10 - 16 V
Signal to Noise Ratio	>95 dB
Frequency Response	10 Hz ~ 50 KHz (+/-1 dB)
Channel Separation	75 dB
Fuse to use	1 A
Maximum Input Voltage	100 W RMS
Dimensions	43(W) x 13(H) x 35(L) mm