since 1988

AUDIO SYSTEM

german sound

HIGH LOW CONVERTER

MANUAL

Z SERIES

ACCESSOIRES



HLC 2 RTC HYUNDAI 73
HLC 2 RTC QUADLOCK 40
HLC 2 RTC 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.

HLC 2 EM RTC 12/24V

- 2-Channel High-Low-Adapter
- Connectable to OEM-amplifiers up to 100 W RMS by HPI-technology
- Connectable to all OEM-headunits
- Optional RTC (PC) bass level remote connectable
- Prohibit disturb signal and power up noise
- Generate a turn-on signal(Remote) over BTL or Signal Recognation (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 attachement. Pay attention, that no electrical cable, gas tank, hydraulic breakes or other components get damaged.

b) Protect your HLC 2 EM RTC 12/24V from fluids, wetness, heat and foreign material as well as from other influences.

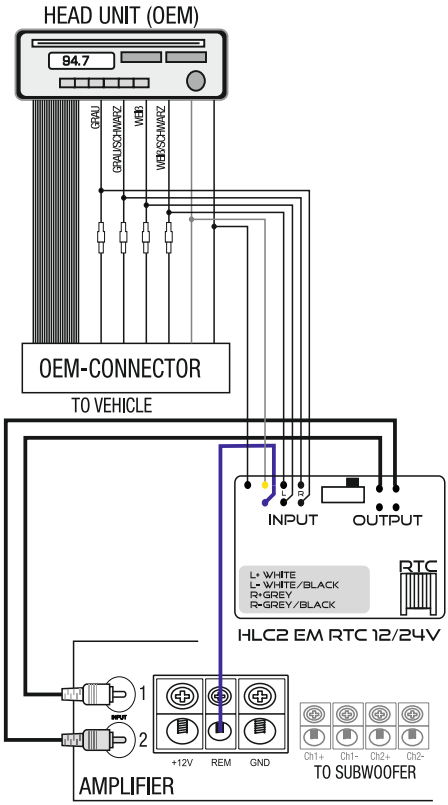
c) The High-Low Adapter is only to be built into vehicles with 12 V - 24 V DC power supply.

d) Never install the power supply cable with other original wires of the vehicle (gas cables), fan motors, brand control moduls etc.

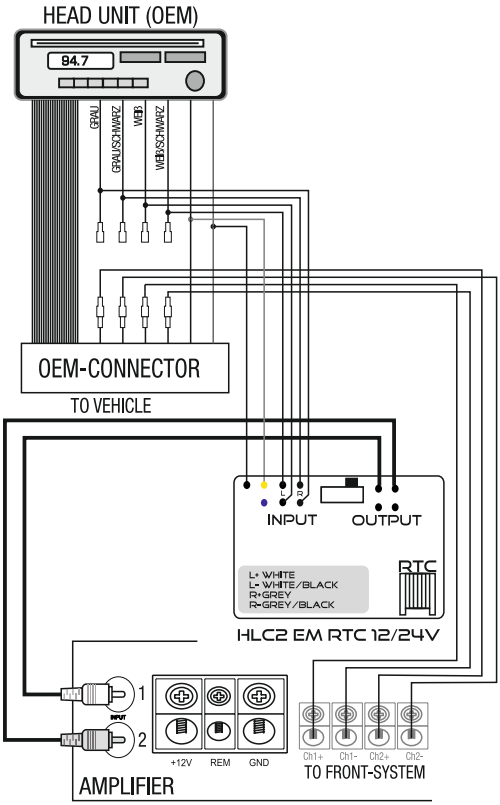
e) Install the signal cable (cinch cable) as well as the speaker cable far away of the power cables to avoid troubles with the music signal.

g) The cables of your HLC 2 EM RTC 12/24V 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. 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 RTC 12/24V 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 RTC 12/24V 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.

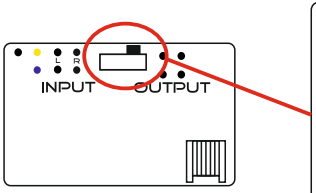
5. Variants Subwoofer and Front-System

The HLC 2 EM RTC 12/24V can be used for connecting a subwoofer- and/or front-system amplifier. Both connection variants are shown above. Optional you can connect a RTC (PC) bass level remote controller (sold seperately)

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

ADJUSTING TO INPUT POWER (HPI)

You can adjust the HLC 2 EM RTC 12/24V 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.



Position 20 W:
OEM-stereo and OEM-amplifier with up to 20 W maximum RMS power output.
Position 100W:
OEM-amplifier with up to 100 W maximum RMS power output.

SIGNAL DETECTION (SE)

The HLC 2 EM RTC 12/24VM has an automatic signal detection circuit (SE-technology). It is automatically used if OEM stereo doesn't use BTL amplifier topology.

SWITCH-OFF DELAY (SE)

If using signal detection to turn on,HLC 2 EM RTC 12/24VM will switch off remote by a predefined time delay. This is neccessary to avoid switching off in low volume passages in music or speach.

ADVANCED SPEAKER LOAD SIMULATION

The HLC 2 EM RTC 12/24V 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.

RTC / RTC PC VOLUME CONTROL

To remotely control output volume of HLC 2 EM RTC 12/24V connect a RTC or RTC PC (sold separately) to the according connecter.

TECHNICAL DATA

Power Supply Voltage	8 - 30V
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	33.3(W) x 15.3(H) x 55(L) mm