



# **Audiobahn®**

AEQ6J  
OWNER'S MANUAL



PLEASE READ THIS MANUAL  
BEFORE OPERATING THIS UNIT.  
RETAIN FOR FUTURE REFERENCE.

## **The Audiobahn Way**

To bring the product to market that excites the consumer through sound and vision from an orientation of integrity and customer service. We make you look as good as you sound. We strive to take car audio to an extreme the world has never seen, and a world that never stops evolving.

Audiobahn was established in 1997 with one long-term goal in mind, "Build it Bigger, Badder, & Better, and the people will take notice!" We back this statement with an engineering team that has brought home several Innovations, Design & Engineering Showcase Awards, and a marketing team from around the world that spends countless hours developing our no compromise products to satisfy the most discriminating enthusiasts.

Our global manufacturing facilities feature ISO9002 ratings (the highest level of quality control awarded in the electronics manufacturing industry), fully robotic assembly lines and a state of the art, California based R & D laboratory.

Our Technical Department and entire staff look to strive above and beyond the rest of the pack by going that extra mile to help you out. Whether you happen to be a veteran competitor, or a beginner car audio enthusiast who does not know a voice coil from a spider. We are all her to help you get the best system you can with what you have.

Judge for yourself, and remember what it's all about, "If it's not Bigger, Badder & Better, it's not Audiobahn." If audio is your life, Audiobahn is the brand for you! We make you look as good as you sound. People never stop trying to get the best product, so we will never stop making it.

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Dear Customer,

Congratulations on your purchase of the worlds finest brand of car audio products. Here at Audiobahn Inc. we are devoted to making our musical reproduction the vert best, and we are pleased you have chosen our product. Through years of engineering expertise, hand craftsmanship, and critical testing procedures, we have created a wide range of products that reproduce music with all the clarity and richness you deserve.

For maximum performance we recommend you have your Audiobahn product installed by an Authorized Audiobahn Dealer, as we provide specialized training through our Audiobahn Installer Training Programs. Please read your warranty, keep your receipt, and original carton for possible future use.

To get a free brochure on Audiobahn products in the US call (714) 452-1476 or e-mail us at [sales@audiobahn.com](mailto:sales@audiobahn.com).

## WARNING

Continuous exposure to sound pressure levels over 100dB may cause permanent hearing loss. High powered autosound systems may produce sound pressure levels well over 135dB. Need we say more! Use common sense.

If after reading this manual you still have questions regarding your product, we recommend that you see your nearest Audiobahn Dealer. A list of Authorized Audiobahn Dealers can be found on our web page. If you need further assistance, feel free to call us at (714) 452-1476 and ask for the Technical Department. Be sure to have the model number, date of purchase, and invoice number available when you call.

The model number can be located on the outside of the carton. Record this in the space provided below along with the date of purchase. It is a good idea to keep your receipt with this as you will need it in the case of needing a warranty, repair service or exchange.

Date of Purchase: \_\_\_\_\_ Model Number: \_\_\_\_\_

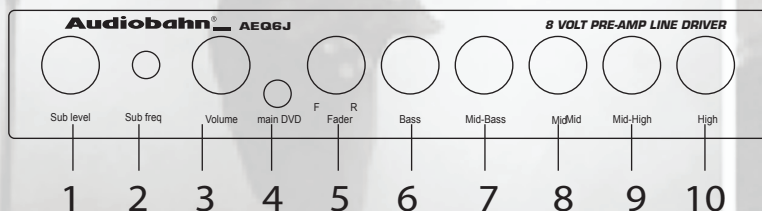
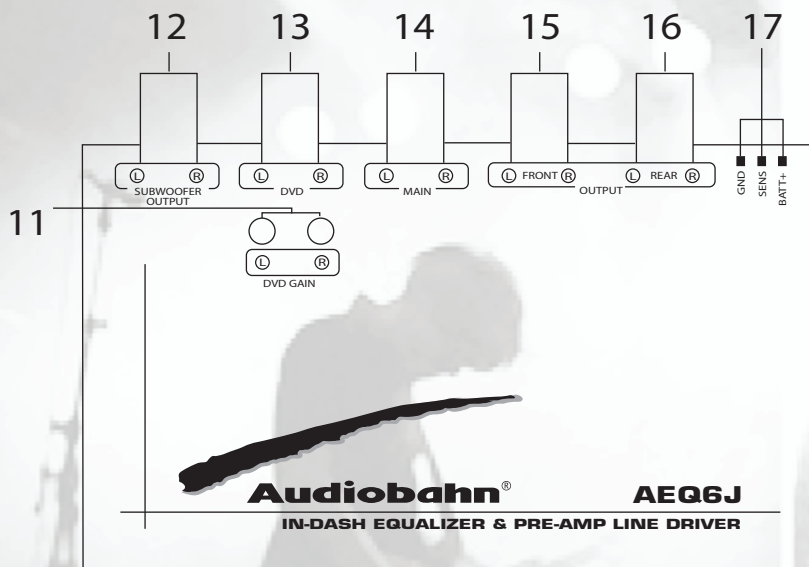
The AEQ6J is a five-band stereo equalizer. Each frequency band is adjustable to meet individual listening preferences. The AEQ6Q also features a subwoofer crossover, subwoofer level control, and a master system control. The subwoofer level output makes use of a built-in 18dB per octave electronic crossover that is adjustable from 60Hz - 90Hz.

- Active gain preamplifiers with adjustable input sensitivity
- Volume gain with up to 8 volts RMS output
- Individual left and right sensitivity controls for DVD input
- Five band stereo equalizer: (45Hz, 100Hz, 700Hz, 2kHz, 15kHz)
- Low noise BI-FET op-amp design yields minimum distortion
- On-board 30V bi-polar switching power supply
- Subwoofer outputs and level controls
- Subwoofer frequencies adjustable 60Hz - 90Hz
- Gold Plated RCA input connectors
- 20dB headroom eliminates signal overload
- Main/DVD input selector
- Universal half-DIN chassis for ease of installation

#### 5-Band EQ

Bass-----45Hz  
 Mid-Bass-----100Hz  
 Mid-----700Hz  
 Mid-High-----2kHz  
 High-----15kHz

Boost/Cut	+/-18dB
S/N Ratio	105dB REF 1 Volt Input
Frequency Response	10Hz - 50kHz +/- 1dB
Maximum Output Voltage	8 Volts RMS
THD	0.005%
Sensitivity	50mV - 3V RMS
Head Room	20dB
Input Impedance	10K Ohms
Separation	65dB/1kHz
Operating Voltage	11-15 Volts
Output Impedance	50k Ohms
Size	24mm x 178mm x 110mm (H x W x D)



- |                                   |                               |
|-----------------------------------|-------------------------------|
| 1. Subwoofer Level Control        | 10. High Frequency Adjustment |
| 2. Subwoofer Frequency Adjustment | 11. DVD Gain Controls         |
| 3. Volume Control                 | 12. Subwoofer Output          |
| 4. Main / DVD Switch              | 13. DVD Input                 |
| 5. Fader Control                  | 14. Main Input                |
| 6. Bass Frequency Adjustment      | 15. Front Output              |
| 7. Mid-Bass Frequency Adjustment  | 16. Rear Output               |
| 8. Mid Frequency Adjustment       | 17. Power Plug                |
| 9. Mid-High Frequency Adjustment  |                               |



## Mounting Precautions

The in-dash EQ can be mounted next to the source unit or under the dash with the supplied mounting brackets. For easy set-up, mount the equalizer so the front panel controls will be easily accessible from the driver's seat after installation. In addition, observe the following precautions.

1. Check the clearance on both sides of a planned installation before drilling any holes or installing any screws.
2. When routing RCA cables, keep them away from power cables and output speaker wires.
3. Do not allow liquids or foreign objects to enter the unit.
4. If the unit should become wet, turn off all the power and call your local authorized Audiobahn dealer so they can check for any possible damage.

## Wiring Precautions

Read all of the following wiring precautions. If you are not sure about any of the installation or wiring processes, please contact your local dealer for help.

1. This unit operates on an automotive 12V negative ground power source and requires additional audio components for proper operation.
2. Disconnect the negative (-) lead of the battery before making any power connections.
3. A good chassis ground connection is critical to the performance of your in-dash EQ. Use the shortest ground wire possible and securely connect the car chassis along with the source unit to minimize resistance and avoid noise problems.
4. Extra cable can cause signal loss and act as an antenna for noise. Use only high quality RCA cables that are no longer than needed.
5. If you are using a source unit without a remote turn-on lead, the in-dash EQ can be turned on with a switched accessory lead.

## System Setup

### Setting System Volume

After completing the system wiring, follow the steps below to properly adjust the in-dash EQ.

1. Turn the master volume control on the in-dash EQ and the amplifier gain controls to their minimum setting.
2. Turn the source unit on and increase the volume until distortion is heard, then reduce the volume just below this point. This is the maximum usable musical signal for this source unit. Turning the volume beyond this point will increase distortion without an increase in musical signal. Once the source unit volume has been set, it will no longer be used. Always use the volume control on the in-dash EQ as the master (main) volume control. It has better electronics, a higher S/N ratio, and is more linear than any source unit volume available.

## Setting Equalizer Controls

1. 1. Begin by setting all frequencies to the center or level position.
2. 2. Play a favorite music track that you know well and adjust the individual EQ controls as desired. Avoid extreme settings that can distort musical peaks.
3. 3. Increase or decrease the EQ gain controls as necessary.
4. 4. If your system includes a subwoofer, slowly increase the subwoofer control until you hear solid bass.
5. 5. If your system includes rear speakers, adjust the fader control to add rear sound. Set it so most of the music comes from the front and only fills in the rear.

## Setting the Low-Pass Frequency

The in-dash EQ processors have a built in low-pass crossover located on the front of the unit. Set the crossover (60Hz - 90Hz) upon the type and size of your subwoofer system.

1. 1. Plug the additional video source into the DVD input located on the back of the unit.
2. 2. With the Main/DVD switch in the MAIN position, turn the equalizer volume to a normal listening volume.
3. 3. With the video source in play mode, switch to the DVD input source.
4. 4. With the Main/DVD switch in the DVD position, adjust the input gain controls located on the top of the panel so that the volume of the DVD source matches the volume of the Main source.



Investigate the layout of your automobile thoroughly before drilling or cutting any holes. Take care when you work near gas tanks, gas lines, hydraulic lines, and electrical wiring. Do not use the power amplifier unmounted. Attach the system securely to the automobile to prevent damage, particularly in the event of an accident. Do not mount the system so that the wire connections are unprotected or are subject to pinching or damage from nearby objects.

The +12V DC power wire must be fused at the battery positive terminal connection. Before making or breaking power connections at the system power terminals, disconnect the +12V wire at the battery end. Confirm your radio/head unit and/or other equipment is turned off while connecting the input jacks and speaker terminals. If you need to replace the power fuse, replace it only with a fuse identical to that supplied with the system. Using a fuse of a different type or rating may result in damage to this system which is not covered by the warranty.

## Disclaimer

Specifications are subject to change without notice.  
For the most updated Specifications call Audiobahn,  
your local Authorized Audiobahn Dealer,  
or check the Audiobahn web site.  
[www.audiobahn.com](http://www.audiobahn.com)

## Audiobahn Consumer Product Warranty Policy

Audiobahn products are manufactured with the highest quality components and some of the most advanced technology available. Because of this we recommend that you have your new products installed by an **Authorized Audiobahn Dealer**. (A list of Authorized Audiobahn Dealers can be found on our web page).

**Warranty Period:** One year from the original date of purchase.

**Warranty Coverage:** This warranty covers manufacturer defects only. The warranty is applicable to the original purchaser, and is non-transferable. You must provide a receipt from an **Authorized Audiobahn Dealer** that shows the location of purchase, price paid, and date of purchase.

(Products purchased by consumers from an **Authorized Audiobahn Dealer** outside the United States are covered only by the Distributor of that specific country and are not covered by **Audiobahn**).

### NOTES:

Complete subwoofer enclosures (**Audiobahn** will replace defective subwoofers, plexiglass, or neon only. Do not send the entire enclosure, unless the enclosure is defective itself. You must receive prior authorization and an RA# before sending in any complete enclosure).

**AUDIOBAHN DOES NOT WARRANTY ANY PRODUCTS NOT PURCHASED THROUGH AN AUTHORIZED DEALER.**

(A list of Authorized Audiobahn Dealers can be found on our web page).

### AUDIOBAHN WARRANTIES DO NOT COVER THE FOLLOWING:

- Any product not purchased from an **Authorized Audiobahn Dealer** (including Internet dealers)
- Damage caused by abuse, misuse, accident, water / flood, or theft (including any cosmetic damage to the body of the product)
- Damage caused by improper installation
- Any cost or expense related to removal or reinstallation
- Any unauthorized services
- Any product that has the serial number removed, altered, or defaced
- Subsequent damage to any other components
- Pinched, cut, or stripped wires / terminals
- Any product that is new, and/or found to be in working condition
- L.E.D. indicators on electronics (**Audiobahn** will only replace L.E.D.(s) found to be defective at the time of purchase)

How to receive warranty service: Contact your local **Authorized Audiobahn Dealer**, or call **Audiobahn** at **(714) 452.1476** between the hours of 9:00AM and 5:00PM PST.

If you are having problems with your system, we recommend you check the product carefully and thoroughly to confirm that the product truly has a manufacturer defect; as opposed to abuse, or other components in the system caused the failure. This might include having an **Authorized Audiobahn Dealer** look at the product to confirm the source of the problem. Any product found to have a manufacturer defect will be replaced with a new piece of the same or similar model, or repaired at the discretion of **Audiobahn**. Any product found to have no manufacturer defect will be returned to the sender at their cost.

**You must acquire a Return Authorization Number (#) prior to returning ANY product to Audiobahn.** That Return Authorization Number (RA#) must be prominently and clearly marked on the outside of the shipping carton, or product delivery will be refused (no exceptions will be made).

Please note: All shipping and handling (to and from) charges will be the sole responsibility of the consumer.

Please record and keep your Return Authorization Number (RA#) in the event that further communication is required.

Return Authorization Number (RA#):

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Date product was sent:

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## **Contact Information**

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