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### ETON POW 80 Midrange Driver 80 mm 3 Inch Midrange Car Speakers Instruction Manual

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ETON POW 80 Midrange Driver 80 mm 3 Inch Midrange Car Speakers Instruction Manual



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#### Introduction

ETON expressly thanks you for deciding to purchase this system and congratulates you on the selection of this excellent product. The ETON loudspeakers are a guarantee for outstanding performance. The electrical, mechanical and tonal characteristics will be maintained at the original high standard throughout the entire operational life of this product. We wish you many pleasant listening hours. The current operational instructions are designed to ensure correct installation of the loudspeakers. They contain information and essential procedures for the correct operation of the product and its attached external devices. Please carefully study the operating instructions before beginning with the installation or the connection of the loudspeakers.

#### **Safety instructions**

#### **Attention !**

Please read all warnings found in this manual. This information is highlighted and included to inform you of the potential danger of personal injury or damage to property.

#### **Hearing Damage**

CONTINOUS EXPOSURE TO SOUND PRESSURE LEVELS OVER 85 dB MAY CAUSE PERMANENT HEARING LOSS. HIGH POWERED AUTO-SOUND SYSTEMS MAY PRODUCE SOUND PRESSURE LEVELS OVER 130 dB. THIS MAY CAUSE DAMAGE OF HEARING. USE COMMON SENSE AND AVOID SUCH RISKS!

#### **Volume and Driver Awareness**

Use of sound components can impair your ability to hear necessary traffic sounds and may constitute a hazard while driving your automobile. ETON accepts no liability for hearing loss, bodily injury or property damage as a result of use or misuse of this product.

#### Mounting

Do not use your automobile until all components of the loudspeaker system have been secured to the interior framework. Failure to do so may turn a component into a dangerous, flying projectile during a sudden stop or accident. Do not drill or drive screws through any vehicle interior or carpeted floor before inspecting the underside for potential punctures to control lines or cables. Be sure to avoid all fuel lines, brake lines, electrical cables or oil lines when planning the installation. We recommend to disconnect the battery. Please ask your car dealer if disconnecting the battery is possible without any problem.

#### **Choosing a location**

For simple installation use the original factory speaker location. Using these positions will save considerable installation time and provide the best optical integration. Avoid installing speakers behind thick stock fabric or cloth. This could – espacially in the case of tweeters – restrict output and reduce sound volume. Too near installation close to reflective surfaces can negatively affect stereo imaging. The distance between each mid/woofer and tweeter pair should not exceed 60 cm. We suggest first mounting the mid/woofer and

attaching cables. Then you can determine the optimum tweeter location by auditioning the tweeters at several positions in your automobile before permanent installation.

#### Installation of midrange

If is not possible to install the loudspeaker in the original factory speaker location, the most used position is in the door panel.

#### Mounting

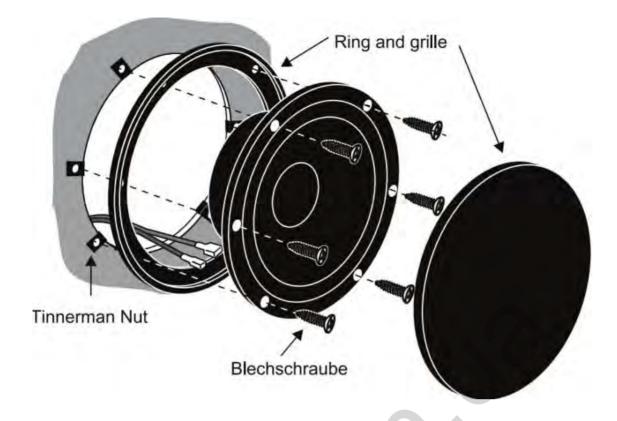
After choosing a location, carefully remove the trim panels. Be sure that sufficient mounting depth is available and that no moveable, mechanical parts (window, window regulator handle) are restricted in their functionality

**Caution:** Use care when removing interior trim panels. Car manufacturers use a variety of fastening devices that can be damaged in the disassembly process.

Use, if necesarry, a drilling template (not included) to cut a suitable hole in the trim panel and, if necessary, in the sheet metal behind. Drill holes for the fastening screws. Mount the parts as shown in figure 1.

#### **ATTENTION!**

If sheet metal must be cut or removed contact your authorized car dealer for professional advice. By damage to supporting body structures the safety certificate may be withdrawn.



#### Mounting

If you plan to use grilles or panels in front of the loudspeaker, ensure that sufficient space is available for the path of the loudspeaker cone. Should the distance not be sufficient, the cone could vibrate against the grille or panel thus damaging the loudspeaker

#### Connection

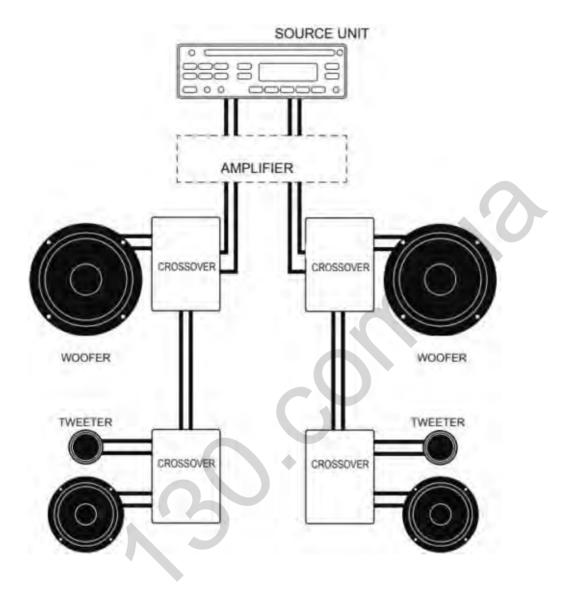
Whenever you run wires through sheet metal, use tape or grommets to properly insulate the metal edges from cable jackets. This technique prevents chafing and possible short circuits that could damage an amplifier or the loudspeakers.

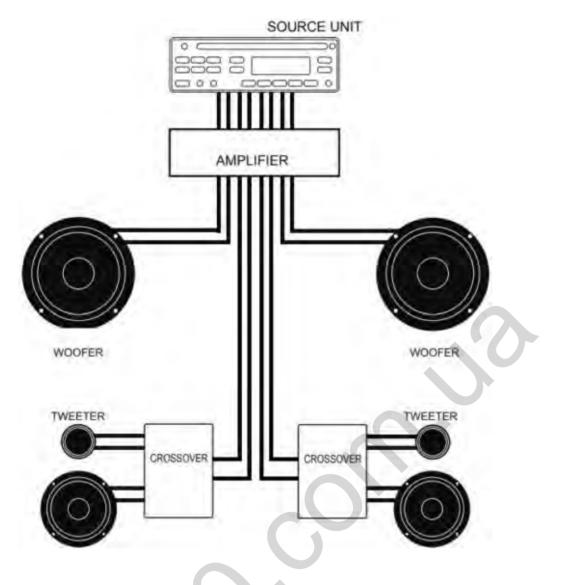
Follow the wiring diagrams figures 2 and 3 to connect the loudspeaker system to your automobile radio and possibly to an amplifier.

Tweeters may only be connected via a crossover. If you want to drive the POW+ system fully active, an active frequency separation for the tweeters is still necessary. To do this, set the necessary values in your DSP or on your amplifier / source. A recommended crossover frequency for tweeters as well as for the bass-midrange drivers can be found on the last page (Technical Data).

**Caution:** Do not apply power to the tweeters without installing crossovers first!

#### **Connection diagram**





#### **Documents / Resources**



#### **ETON POW 80 Midrange Driver 80 mm 3 Inch Midrange Car Speakers** [pdf] Instruction Manual POW 80 Midrange Driver 80 mm 3 Inch Midrange Car Speak ers, POW 80, Midrange Driver 80 mm 3 Inch Midrange Car S peakers, 3 Inch Midrange Car Speakers, Car Speakers

#### References

User Manual

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