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ATB120

OPERATING INSTRUCTIONS



Congratulations on your purchase of this AXTON enclosure subwoofer system. Please read and follow the provided installation and operating instructions carefully, to benefit from the max. sound quality and performance this component is capable of. Keep the instruction manual for any questions that may arise later.

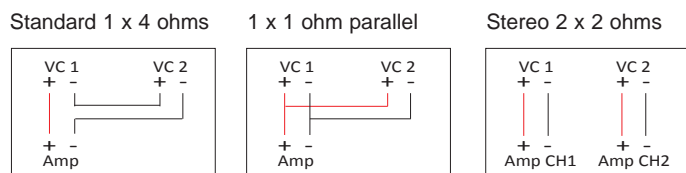
CONNECTION & INSTALLATION

With the supplied metal brackets you can safely place the ATB120 at the location of your choice: trunk floor, side panel or rear seat. However, be careful not to damage any safety-related parts of the vehicle during installation, such as the tank, brake lines or power cables. If you need help, please contact your AXTON dealer.



Connect the speaker cable from your power amplifier to the detachable terminals on the side panel of your subwoofer. The subwoofer chassis of the ATB120 works with a so-called double voice coil, referred as VC1 and VC2 in the connection diagram.

Thus, the following connection options are available:



AMPLIFIER ADJUSTMENTS

The utilized amplifier should have a 12 dB / oct. Low Pass Filter with a control range of < 70 to > 100 Hz. If the Amplifier is also equipped with a subsonic filter, set this to about 30 - 35 Hz, to filter out subsonic frequencies. For adjusting the input sensitivity of the amplifier please refer to its operating instructions. The general rule is that the bass should not overdrive even at full volume.

ACOUSTICAL IN-PHASE CONNECTION

Now find out the in-phase polarity of your subwoofer. A subwoofer that is not acoustically in phase with the front system plays sounds limp and listless due to the resulting sound cancellations in the selected crossover frequency range. On simply reversing the polarity of the speaker cable at the connection terminal of the amp, the subwoofer shows acoustically that connection polarity, which is acoustically in phase: The bass range is getting louder or just fuller reproduced - this is the right connection variant. If you follow the stereo connection, please make sure you do the polarity reversal at both VC1 and VC2. Otherwise, the voice coils threaten to burn, as they would work against each other.

Now follows the final step to fine tune the bass response through fine adjustments of the crossover frequency and the input sensitivity of the amplifier. Generally, a too deeply selected crossover frequency on your active crossover leads to an unpressurized sound, while at too high crossover frequency the playback tends to drone.

| TECHNICAL DATA | ATB120 |
|-------------------------|-----------------|
| Maximum power handling: | 300 W |
| Nominal power handling: | 200 W |
| Sensitivity (1W/1m): | 89 dB |
| Frequency response: | 60 – 220 Hz |
| Nominal impedance: | 2 x 2 ohms |
| Dimensions (HxWxD)mm: | 135 x 485 x 345 |

WARRANTY CONDITIONS

LIMITED WARRANTY: 24 MONTHS

Warranty Limitations

This warranty does not cover any damage due to:

1. Speaker overload due to excessive or distorted amplifier power (burned voice coil) etc.
2. Exposure to excessive humidity, fluids, heat, direct sunrays or excessive dirt or dust.
3. Accidents or abuse, unauthorized repair attempts and modifications not explicitly authorized by the manufacturer

This warranty is limited to the repair or the replacement of the defective product at the manufacturer's option and does not include any other form of damage, whether incidental, consequential or otherwise. This warranty will not cover any loss during transportation, transport costs or any other damage caused by transport or shipment of the product.