

**MANUAL**

*Prestige*

**P-6 / P-6.5**

**WWW.XETEC.DE**

**...ALWAYS AHEAD!**



## XETEC® “Prestige” speaker systems P-6 / P-6.5

Congratulations! You have chosen one of XETEC’s most sophisticated products. Your choice will be rewarded.

We have developed a high performance speaker system with many optional adjustments that allow you to chose your personal and individual sound character. Experiments are strictly allowed! In order to enjoy the XETEC “Prestige” Speaker Systems at their best, you should carefully read this manual.

**XETEC Prestige.  
No sound, just pure music!**

The XETEC “Prestige” series Speaker Systems have been developed for state-of-the-art performance car audio sound systems. They can reveal every detail of your music, when connected to adequate amplifiers, like the XETEC Prestige P-2 and P-4, or the exceptional XETEC Master series amplifiers.

Only the finest materials as well as many applied patents can guarantee a result like this.

### XETEC “Prestige” series P-6:

The P-6 is a High-End 2-way speaker system with a 6” woofer in an Aluminium cast basket, and a 28 mm tweeter in a CNC machined aluminium housing.

The P-6 woofer is exclusively custom hand-made for XETEC by Scan-Speak in Denmark, and especially optimised for car audio application. The unique wood-fibre cone with its characteristic silicon-filled slits produces the most natural sound quality possible. It is very stiff and non-resonant, but still light-weight.

The 38 mm voicecoil on the aluminium former provides optimised power handling, and fast response, whereas the specially-designed low loss surround avoids reflections, and thus provides linearisation of the frequency response.

The aluminium basket geometry avoids any reflections or compression effects on the back side of the membrane, and ensures an open, uncoloured sound reproduction.

The T-28 tweeter also is based on a Scan-Speak motor with 28 mm voicecoil and silk dome. We have put it in an own, CNC machined aluminium housing with optimised geometry to provide a perfectly linearised dispersion.

The result is a clean, detailed sound character, with finest micro-dynamics and holographic resolution.

Prestige P-6 allows the most breathtaking and overwhelming combination of colossal dynamics, and attention to finest details.

### XETEC "Prestige" series P-6.5:

The **P-6.5 High-End 2-way speaker system** uses the same tweeter, as the **P-6**, but a different woofer, to form a more reasonably-priced alternative to the **P-6**, still with a similar stunning character.

The **P-6.5 (6,5") Woofer** is also exclusively custom hand-made for **XETEC** by DST in Denmark. It has a back-coated glass-fibre mesh cone that is non-resonant and stiff at the same time. This provides good dynamics and low coloration at the same time. Reproduction of finest details and musical neutrality are achieved by using a special coating technique. The Magnesium cast basket supports its mechanical stability, and guarantees low resonance. The optimised long-stroke design allows high sound pressure levels without compression effects.

The "Prestige" P-6.5 is one of the most "HiFi-like" speaker systems in the market, and provides natural sound as well as amazing dynamics.

### Installation:

- For optimal safety, the product must be fixed to the vehicle. Please use the screws of the installation set.
- Do not drill holes into parts of the vehicle at locations where you do not know what is behind. Please check first, if there are fuel pipes or cables.
- Always make sure to install signal cables far away from power cables to avoid interference and alternator noise.
- Do not bend the speaker housings and baskets!
- Use only high-quality amplifiers with suitable power rating!

**Please also check the correct polarity when you connect your speakers. Reversed polarity leads to poor sound quality.**

### WARNING:

**XETEC** loudspeakers can produce very high sound pressure levels, that may distract from traffic or cause hearing defects when played long time at high level.

**XETEC design group GmbH** does not take any responsibility. So, always be careful with the volume adjustment.

**XETEC** recommends the following highpass frequency adjustments at your amplifiers:

Do not adjust the highpass filter of your amplifier too low! The following recommendations provide optimal power handling and sound quality.

P-6: 80 - 100Hz, 12dB in open door installation, 70-90Hz in calculated sealed housing

P-6.5: 80 - 100Hz, 12dB in open door installation, 70-90Hz in calculated sealed housing

### Input and speaker Terminals:

Input: +/- Speaker signal input from the amplifier

Woofer: +/- terminals for the tweeter

Tweeter: +/- terminals for the woofer

**XETEC X-2P crossover**

**Tweeter Level adjust:**

+1,5dB / 0dB / -1,5dB / -3dB

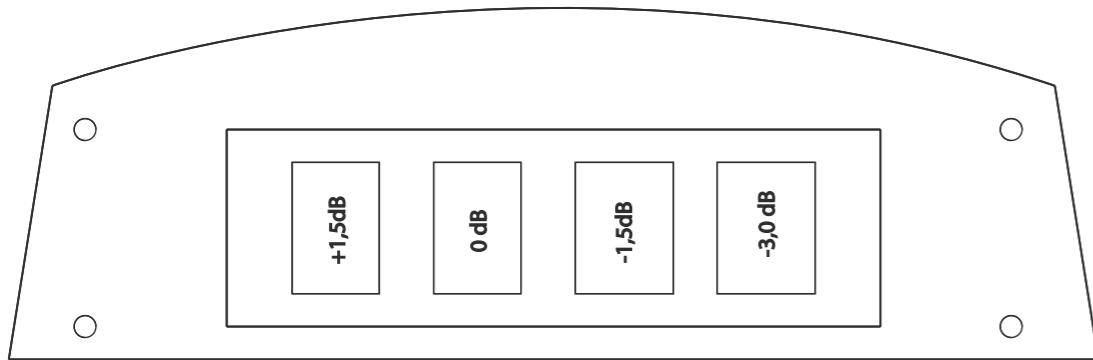


Fig.1 Jumpers Tweeter Level XETEC X-2P

Woofers Model	P-6	P-6.5
Impedance (Ohm):	4	4
Power Handling (Watt):	120	120
Peak Power (Watt):	150	150
SPL (dB/1W/1m):	87	90
Frequency range (Hz):	45 - 6000Hz	50 - 6000Hz

Tweeter	T-28
Frequency range:	1,8 - 28kHz
Res.Freq. (kHz):	0,6
Power Handling (Watt max.):	120
Impedance (Ohm):	4

**Prestige X-2P crossover:**

X-over frequency: ca. 2.800Hz  
 Tweeter level select : +1,5dB / 0dB / -1,5dB / -3dB

**Prestige Woofer Parameters:**

Parameters	Prestige P-6	Prestige P-6.5
Re	3,54	3,47
Fs (Hz)	43,6	52,4
Qms	2,49	5,35
Qes	0,61	0,58
Qts	0,50	0,52
BL	4,46	4,72
Md (g)	12,50	11,22
Vas (Liter)	13,51	21,16
Le (mH)	0,26	0,43
Sd (cm <sub>2</sub> )	98,0	135,0



**XETEC DESIGN GROUP GMBH**  
LENGERICHER LANDSTRASSE 30  
D-49078 OSNABRÜCK  
PHONE +49-541-750450  
FAX +49-541-7504545  
E-MAIL: [INFO@XETEC.DE](mailto:INFO@XETEC.DE)

**XETEC**<sup>®</sup>

designgroup