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› DS18 PRO-TW220B 3" PRO Aluminum Super Bullet Tweeter User Manual

DS18 PRO-TW220B

DS18 PRO-TW220B User Manual

3" PRO Aluminum Super Bullet Tweeter

1. INTRODUCTION

Thank you for choosing the DS18 PRO-TW220B Super Bullet Tweeters. These professional-grade tweeters are engineered to deliver exceptionally crisp, bright, and loud high-frequency sound, enhancing your audio system's performance. Designed with a durable aluminum frame and diaphragm, they are built for clarity and longevity. This manual provides essential information for proper installation, operation, and maintenance of your new tweeters.



Image 1.1: Front view of two DS18 PRO-TW220B Super Bullet Tweeters.

DS18

PRO

ALUMINIUM SUPER BULLET
TWEETER
WITH BUILT IN CROSSOVER



PRO-TW220

3.2" Ω 4 Ohms

AVAILABLE ON:



Silver



Black



**240W PEAK Power
120W RMS Power
60W AES Power**

SOLD AS PAIR

Image 1.2: DS18 PRO-TW220B tweeter highlighting its PRO series designation, aluminum construction, and built-in crossover, along with power ratings (240W Peak, 120W RMS, 60W AES) and 4 Ohm impedance.

2. SAFETY INFORMATION

Please read all safety instructions before installing or operating the tweeters. Failure to do so may result in personal injury or damage to the product or vehicle.

- Always disconnect the vehicle's battery before performing any electrical work.
- Ensure proper wiring and connections to avoid short circuits or electrical hazards.
- Do not expose the tweeters to excessive moisture or extreme temperatures.
- Wear appropriate safety gear, such as eye protection, during installation.
- Consult a professional car audio installer if you are unsure about any part of the installation process.

3. WHAT'S IN THE BOX

Upon opening the package, please verify that all components are present and undamaged:

- 2 x DS18 PRO-TW220B Super Bullet Tweeters

4. SETUP AND INSTALLATION

The DS18 PRO-TW220B tweeters are designed for easy integration into car audio, pro audio, and motorcycle systems. They feature a built-in crossover for simplified wiring.

4.1 Mounting Considerations

These tweeters are suitable for flush mounting. Ensure that the chosen mounting location has sufficient depth and clearance for the tweeter's dimensions. The mounting depth is approximately 2.3 inches (58.4 mm).



Image 4.1: Example of DS18 PRO-TW220B tweeters installed in a vehicle's door panel, demonstrating their application in car audio

systems.

4.2 Wiring Instructions

The PRO-TW220B tweeters come with a built-in capacitor filter, which acts as a basic high-pass crossover. Connect the positive (+) terminal of the tweeter to the positive (+) output of your amplifier or head unit, and the negative (-) terminal of the tweeter to the negative (-) output. Ensure all connections are secure and properly insulated to prevent short circuits.



Image 4.2: Rear view of the DS18 PRO-TW220B tweeter, displaying the connection terminals and the product label with 240W Peak Power and 4 Ohm impedance.

5. OPERATING INSTRUCTIONS

Once properly installed and wired, the DS18 PRO-TW220B tweeters will operate as part of your audio system. They are designed to reproduce high frequencies (treble) with clarity and power.

- **Power Handling:** These tweeters can handle 120 Watts RMS and 240 Watts Max power. Ensure your amplifier's output does not exceed these ratings to prevent damage.
- **Impedance:** The tweeters have a 4 Ohm impedance. Match this with your amplifier's stable impedance output.
- **Sound Adjustment:** Use your head unit's or amplifier's equalizer settings to fine-tune the high-frequency output to your preference. Avoid excessive treble boost, which can lead to distortion or damage.

6. MAINTENANCE

The DS18 PRO-TW220B tweeters require minimal maintenance to ensure long-lasting performance.

- **Cleaning:** Use a soft, dry cloth to gently wipe the surface of the tweeters. Do not use harsh chemicals or abrasive cleaners.
- **Inspection:** Periodically check wiring connections for looseness or corrosion.
- **Environment:** While durable, avoid exposing the tweeters to direct water spray or extreme dust, which can affect performance over time.

7. TROUBLESHOOTING

If you experience issues with your DS18 PRO-TW220B tweeters, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound from tweeters	Loose or incorrect wiring Amplifier not powered on Blown fuse in amplifier/head unit	Check all wiring connections for security and correct polarity. Verify amplifier is receiving power and is turned on. Inspect and replace any blown fuses.
Distorted sound	Overpowering the tweeters Incorrect gain settings Poor quality audio source	Reduce volume or amplifier gain. Ensure RMS power matches tweeter rating. Adjust amplifier gain settings appropriately. Try a different audio source to rule out source issues.
Intermittent sound	Loose connections Damaged wiring	Secure all wiring connections. Inspect wiring for cuts or fraying and repair/replace as needed.

8. SPECIFICATIONS

Detailed technical specifications for the DS18 PRO-TW220B Super Bullet Tweeter:

Feature	Specification
Model Name	PRO-TW220B
Speaker Type	Tweeter
Speaker Size	3 Inches
Tweeter Diameter	2.83 Inches
Speaker Maximum Output Power	240 Watts
RMS Power	120 Watts
Impedance	4 Ohm

Feature	Specification
Sensitivity	104 dB
Frequency Response	2KHz - 20KHz
Voice Coil	1" / 25.4mm Kapton
Magnet	8 Oz Ferrite
Product Dimensions (D x W x H)	2.57"D x 3.2"W x 2.3"H
Mounting Type	Flush Mount
Item Weight	2.94 pounds (1.34 Kilograms)
Included Components	2 Tweeters
Color	Black
Manufacturer	DS18



Image 8.1: Side view of the DS18 PRO-TW220B tweeter with its height dimension (2.3 inches) indicated.



Image 8.2: Angled view of the DS18 PRO-TW220B tweeter showing its full dimensions: 2.3 inches (height), 2.57 inches (depth), and 3.2 inches (width).

9. WARRANTY AND SUPPORT

The DS18 PRO-TW220B tweeters come with a **Limited Warranty**. For specific details regarding warranty coverage, terms, and conditions, please refer to the warranty information provided with your purchase or visit the official DS18 website.

For technical support, troubleshooting assistance beyond this manual, or warranty claims, please contact DS18 customer service through their official channels. You may also find additional resources and FAQs on the [DS18 Store on Amazon](#).

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