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› DS18 PRO-TWN1 Titanium High Compression Neodymium Slim Super Bullet Tweeter Instruction Manual

## DS18 PRO-TWN1

# DS18 PRO-TWN1 Titanium High Compression Neodymium Slim Super Bullet Tweeter Instruction Manual

Model: PRO-TWN1

## 1. INTRODUCTION

Thank you for choosing the DS18 PRO-TWN1 Titanium High Compression Neodymium Slim Super Bullet Tweeter. This manual provides essential information for the proper installation, operation, and maintenance of your new tweeter. Please read this manual thoroughly before installation and retain it for future reference.



Figure 1.1: Front view of the DS18 PRO-TWN1 Super Bullet Tweeter.

### Key Features:

- **High-Frequency Reproduction:** Engineered for clear and precise high-frequency audio output.
- **Power Handling:** Capable of handling 120 Watts RMS and 240 Watts Max power at 4 ohms.
- **Built-in Crossover:** Integrates a capacitor filter for signal integrity and protection.
- **Durable Construction:** Features a high-quality aluminum frame and titanium diaphragm for robust performance and bright sound.
- **Compact Design:** Slim bullet tweeter design with a protective dust cover for the voice coil.

## 2. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and longevity of your tweeter. If you are unsure about any part of the installation process, it is recommended to seek assistance from a professional audio installer.

### 2.1 Unpacking

Carefully remove the tweeter from its packaging. Inspect the unit for any signs of damage that may have occurred during shipping. If damage is found, contact your dealer immediately.

### 2.2 Mounting Considerations

The PRO-TWN1 tweeter is designed for flush or surface mounting in various vehicle applications. Ensure the chosen mounting location provides sufficient clearance behind the mounting surface for the tweeter's depth and allows for secure fastening.



Figure 2.1: Tweeter dimensions for mounting. Overall Diameter: 2.93 inches (74.4mm), Mounting Depth: 1.61 inches (41mm), Front Mount Baffle Cut Out: 2.32 inches (59mm).

1. **Select Location:** Choose a flat, stable surface in your vehicle that allows for optimal sound dispersion and secure mounting.
2. **Mark Cutout:** Using the provided template or the specified cutout diameter (2.32 inches / 59mm), mark the area for cutting.
3. **Cut Opening:** Carefully cut the opening using appropriate tools. Ensure the opening is clean and free of debris.
4. **Secure Tweeter:** Insert the tweeter into the opening and secure it using screws through the mounting holes. Do not overtighten.

## 2.3 Wiring

The PRO-TWN1 tweeter has a nominal impedance of 4 ohms and includes a built-in capacitor to act as a high-pass filter. This simplifies wiring by eliminating the need for an external passive crossover for basic protection.



Figure 2.2: Bottom view showing the positive (red) and negative (black) wiring terminals.

- Connect the positive (+) terminal of the tweeter (marked in red or with a '+' symbol) to the positive (+) high-frequency output of your amplifier or head unit.
- Connect the negative (-) terminal of the tweeter (marked in black or with a '-' symbol) to the negative (-) high-frequency output of your amplifier or head unit.
- Ensure all connections are secure and properly insulated to prevent short circuits.
- Verify that your amplifier can safely operate at a 4-ohm load.

### 3. OPERATING INSTRUCTIONS

Once installed, the DS18 PRO-TWN1 tweeter will reproduce high-frequency sounds (treble) as part of your car audio system. For optimal sound quality, ensure your audio system's settings are properly configured.

#### 3.1 Power Handling

The tweeter is rated for 120 Watts RMS (Root Mean Square) and 240 Watts Max (Peak) power. It is important to match the amplifier's output power to the tweeter's RMS rating to prevent damage. Overpowering the tweeter can lead to distortion and permanent damage.

#### 3.2 Frequency Response and Sensitivity

The PRO-TWN1 has a frequency response range of 3 kHz to 20 kHz, ensuring clear reproduction of high notes. With a sensitivity of 104 dB, it efficiently converts amplifier power into sound, resulting in loud and clear output.

EASILY MOUNTABLE IN ALMOST ANY POSITION. SMALL, SLEEK AND LOUD.  
WHAT YOU NEED FOR SCREAMING HIGHS IN ANY SPACE



Frequency:  
3 - 20KHz



Sensitivity:  
104 dB



1 Inch Titanium  
Voice Coil

Built-In Bullet



BUILT-IN GRILLS WILL HELP YOU  
PROTECT THE INNER WORKINGS

Figure 3.1: Key operational specifications including Frequency Response, Sensitivity, and Voice Coil size.

### 3.3 Audio System Settings

- **Gain Settings:** Adjust amplifier gain settings carefully to avoid clipping, which can damage the tweeter.
- **Equalization:** Use your head unit or amplifier's equalizer to fine-tune the sound. Avoid excessive boosting of high frequencies, which can lead to harshness or damage.
- **Volume Control:** Always turn down the volume before starting your vehicle or turning on your audio system to prevent sudden loud bursts of sound.

## 4. MAINTENANCE

The DS18 PRO-TWN1 tweeter requires minimal maintenance to ensure long-lasting performance.

- **Cleaning:** Use a soft, dry cloth to gently wipe the tweeter's surface. Avoid using harsh chemicals or abrasive cleaners.
- **Inspection:** Periodically check wiring connections for tightness and corrosion. Ensure the mounting screws are secure.
- **Environmental Factors:** While durable, the tweeter is not waterproof. Avoid exposing it to direct moisture or extreme temperatures.

## 5. TROUBLESHOOTING

If you experience issues with your DS18 PRO-TWN1 tweeter, refer to the following troubleshooting guide before contacting support.

### 5.1 No Sound from Tweeter

- **Check Connections:** Ensure all wiring connections are secure and correctly polarized (+ to +, - to -).
- **Verify Amplifier Output:** Confirm that your amplifier or head unit is powered on and sending an audio signal. Test with another speaker if possible.
- **Inspect Wiring:** Check for any cut, pinched, or shorted wires.
- **Head Unit Settings:** Ensure the balance, fader, and high-pass filter settings on your head unit are correctly configured.

## 5.2 Distorted Sound

- **Reduce Volume:** Distortion often occurs when the volume is too high, causing the amplifier to clip. Lower the volume to see if the distortion clears.
- **Check Amplifier Gain:** Ensure the amplifier's gain is not set too high. Adjust it according to the amplifier's instructions.
- **Equalizer Settings:** Excessive boosting of high frequencies in your equalizer settings can cause distortion. Try flattening the EQ or reducing treble levels.
- **Power Supply:** Ensure your vehicle's electrical system is providing stable power to the amplifier.

## 5.3 Intermittent Sound

- **Loose Connections:** Recheck all wiring connections for looseness or poor contact.
- **Damaged Wiring:** Inspect speaker wires for any breaks or frayed sections.

## 6. SPECIFICATIONS

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Detailed technical specifications for the DS18 PRO-TWN1 Titanium High Compression Neodymium Slim Super Bullet Tweeter.

**DS18**<sup>®</sup>



Voice Coil Size: 1"



Impedance: 4 Ohms



Neodymium  
Magnet



240W MAX Power  
120W RMS Power



Frequency Response:  
3KHz - 20KHz



Sensitivity:  
104dB

**PRO**

**PRO-TWN1**

Figure 6.1: Overview of key specifications for the PRO-TWN1 tweeter.

| Feature            | Specification                          |
|--------------------|----------------------------------------|
| Model              | PRO-TWN1                               |
| Speaker Type       | Tweeter                                |
| Material           | Aluminum (Frame), Titanium (Diaphragm) |
| Voice Coil Size    | 1 inch                                 |
| Impedance          | 4 Ohm                                  |
| RMS Power Handling | 120 Watts                              |
| Max Power Handling | 240 Watts                              |
| Frequency Response | 3 kHz - 20 kHz                         |

|                            |                                                                          |
|----------------------------|--------------------------------------------------------------------------|
| Sensitivity                | 104 dB                                                                   |
| Magnet Type                | Neodymium                                                                |
| Overall Diameter           | 2.93 inches (74.4 mm)                                                    |
| Mounting Depth             | 1.61 inches (41 mm)                                                      |
| Front Mount Baffle Cut Out | 2.32 inches (59 mm)                                                      |
| Item Weight                | 17.6 Ounces (0.5 kg)                                                     |
| Included Components        | Super Bullet Tweeter (1 unit)                                            |
| Recommended Uses           | Car audio systems, professional audio setups, custom audio installations |
| Waterproof                 | No                                                                       |

## 7. WARRANTY AND SUPPORT

### 7.1 Limited Warranty

The DS18 PRO-TWN1 tweeter comes with a limited warranty. Please refer to the warranty card included with your product or visit the official DS18 website for detailed terms and conditions regarding warranty coverage, duration, and claims procedures. This warranty typically covers defects in materials and workmanship under normal use.

### 7.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact DS18 customer support. Contact information can usually be found on the official DS18 website or on your product packaging.

**DS18 Official Website:** [ds18.com](https://www.ds18.com)

### ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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Anonymous

Email

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for

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### Question

Example: How do I reset this device or fix this error?

### Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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