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DS18 PRO-X6.4BMPK

DS18 PRO-X6.4BMPK Car Speaker Package Instruction Manual

Model: PRO-X6.4BMPK

Brand: DS18

INTRODUCTION

Thank you for choosing the DS18 PRO-X6.4BMPK Car Speaker Package. This manual provides essential information for the proper installation, operation, and maintenance of your new car audio components. Please read this manual thoroughly before attempting installation or use to ensure optimal performance and safety.



Image: The complete DS18 PRO-X6.4BMPK package, showcasing two 6.5-inch midrange speakers and two 1-inch tweeters.

SAFETY INFORMATION

To prevent injury or damage to the product, observe the following safety precautions:

- Always disconnect the vehicle's battery negative terminal before beginning any electrical work.
- Ensure all wiring is properly insulated to prevent short circuits.
- Mount speakers securely to prevent them from becoming projectiles in the event of a sudden stop or collision.
- Avoid prolonged exposure to very high volume levels, which can cause permanent hearing damage.
- If you are unsure about any installation steps, consult a professional car audio installer.

PACKAGE CONTENTS

Verify that your package contains the following items:

- 2 x DS18 PRO-X6.4BM 6.5-inch Midrange Loudspeakers
- 2 x DS18 PRO-TWX1 1-inch Super Tweeters (with built-in capacitor filters)



Image: A pair of DS18 6.5-inch midrange speakers and a pair of 1-inch tweeters, as included in the package.

SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your speakers. Consider professional installation if you are not familiar with car audio wiring.

Mounting the Midrange Speakers

1. Choose a suitable location in your vehicle, typically door panels, that can accommodate the 6.5-inch diameter and mounting depth.
2. Ensure there is sufficient clearance behind the speaker for the magnet structure and proper air movement.
3. Use the provided mounting hardware to securely fasten the midrange speakers. Avoid over-tightening screws.



Image: A detailed view of the DS18 6.5-inch PRO-X midrange speaker, highlighting its cone and surround.

Mounting the Tweeters

1. Select a location for the tweeters that allows for optimal sound dispersion, such as A-pillars or dashboard corners.
2. The tweeters can be flush-mounted or surface-mounted depending on your vehicle and preference.
3. Drill necessary holes carefully, ensuring no damage to existing wiring or vehicle components.
4. Secure the tweeters using the appropriate mounting accessories.



Image: A close-up of the DS18 1-inch PRO-TWX1 tweeter, showing its compact design and integrated capacitor for high-pass filtering.

Wiring Connections

The PRO-TWX1 tweeters feature a built-in capacitor that acts as a high-pass filter, eliminating the need for an external crossover for the tweeter. Connect the midrange and tweeter in parallel to a single amplifier channel.

- Connect the positive (+) terminal of the midrange speaker to the positive (+) output of your amplifier channel.
- Connect the negative (-) terminal of the midrange speaker to the negative (-) output of your amplifier channel.
- Connect the positive (+) terminal of the tweeter to the same positive (+) output of your amplifier channel.
- Connect the negative (-) terminal of the tweeter to the same negative (-) output of your amplifier channel.
- Ensure all connections are secure and free from corrosion. Use appropriate gauge speaker wire.

Important: The combined impedance of the midrange and tweeter connected in parallel will be lower than the individual speaker impedance. Ensure your amplifier is stable at the resulting load. For example, two 4-ohm speakers in parallel result in a 2-ohm load.

OPERATING INSTRUCTIONS

Once installed, follow these guidelines for optimal performance:

- **Initial Power-Up:** Start with your amplifier's gain settings at their lowest. Gradually increase the volume from your head unit.
- **Gain Adjustment:** Carefully adjust the amplifier gain. The goal is to match the amplifier's output to the head unit's output without introducing distortion. Do not use the gain control as a volume knob.
- **Crossover Settings:** If your amplifier or head unit has adjustable crossover settings, a high-pass filter for the midrange speakers is recommended to protect them from low bass frequencies. A common starting point is 80-100 Hz. The tweeters have a built-in high-pass filter.
- **Listening Levels:** Avoid playing audio at excessively high volumes for extended periods to prevent speaker

damage and hearing loss.

MAINTENANCE

Your DS18 speakers require minimal maintenance:

- **Cleaning:** Use a soft, dry cloth to gently wipe away dust from the speaker cones and surrounds. Avoid using harsh chemicals or excessive moisture.
- **Inspection:** Periodically check speaker grilles and mounting points for any signs of looseness or damage. Ensure wiring connections remain secure.
- **Environmental Factors:** Protect speakers from extreme temperatures and direct exposure to water or excessive humidity.

TROUBLESHOOTING

If you encounter issues with your speakers, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Sound from Speakers	Loose or incorrect wiring, amplifier off or in protect mode, head unit settings.	Check all wiring connections. Verify amplifier power and status. Confirm head unit output settings.
Distorted Sound	Amplifier gain too high, damaged speaker, incorrect crossover settings, insufficient power.	Reduce amplifier gain. Check speaker for physical damage. Adjust crossover settings. Ensure adequate power supply.
Intermittent Sound	Loose wiring, faulty connection, amplifier overheating.	Inspect all wiring for secure connections. Check amplifier for proper ventilation.
One Speaker Not Working	Faulty speaker wire, damaged speaker, amplifier channel issue.	Swap speaker connections to another channel to isolate the problem. Inspect speaker wire for breaks.

SPECIFICATIONS

Detailed technical specifications for the DS18 PRO-X6.4BMPK package components:

Feature	Specification
Model Name	PRO-X6.4BMPK
Speaker Type	Component (Midrange & Tweeter)
Midrange Speaker Size	6.5 Inches
Tweeter Size	1 Inch
Midrange RMS Power	250 Watts per speaker
Midrange Max Power	500 Watts per speaker
Tweeter RMS Power	120 Watts per tweeter
Tweeter Max Power	240 Watts per tweeter

Feature	Specification
Impedance	4 Ohm
Connectivity Technology	Wired
Recommended Uses	Car, Truck (Door mounting)
Product Package Dimensions	3.3"D x 8.5"W x 19.2"H
Item Weight	12.82 pounds
UPC	810005182850



Image: Back label of the DS18 PRO-X6.4BM 6.5-inch midrange loudspeaker, showing key specifications.



Image: Back label of the DS18 PRO-TWX1/BK tweeter, displaying its power handling and impedance.

WARRANTY AND SUPPORT

DS18 products are designed for durability and performance. This product comes with a limited warranty.

- **Warranty Coverage:** The specific terms and duration of the limited warranty are provided at the time of purchase or can be found on the official DS18 website. Please retain your proof of purchase for warranty claims.
- **Technical Support:** For technical assistance, installation questions, or troubleshooting beyond this manual, please contact DS18 customer support directly. Refer to the DS18 official website for contact information.