



[Manuals.plus](#) /

› [DS18](#) /

› DS18 EXL-MM68 600 Watt Competition-Grade Midrange Speaker Instruction Manual

## DS18 EXL-MM68

# DS18 EXL-MM68 Midrange Speaker

Instruction Manual

## 1. INTRODUCTION

---

Thank you for choosing the DS18 EXL-MM68 Competition-Grade Midrange Speaker. This manual provides essential information for the proper installation, operation, and maintenance of your new speaker. Please read this manual thoroughly before attempting installation or use to ensure optimal performance and safety.



*Image 1.1: Front view of the DS18 EXL-MM68 Midrange Speaker. This speaker features a red aluminum basket and a non-pressed paper cone, designed for high-fidelity midrange audio reproduction in car audio systems.*

## 2. SAFETY INFORMATION

---

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

- **High Volume Warning:** Prolonged exposure to high sound pressure levels can cause permanent hearing loss. Use caution when adjusting volume levels.
- **Professional Installation Recommended:** If you are unsure about the installation process, consult a qualified professional car audio installer.
- **Power Requirements:** Ensure your amplifier can safely deliver the required power to the speaker. Overpowering can lead to speaker damage.
- **Wiring:** Always use appropriate gauge wiring for connections. Incorrect wiring can cause overheating or electrical shorts.
- **Mounting:** Securely mount the speaker to prevent it from becoming a projectile in case of sudden stops or accidents.

- **Environmental Conditions:** Avoid exposing the speaker to excessive moisture, extreme temperatures, or direct sunlight for extended periods.

### 3. PACKAGE CONTENTS

---

Verify that your package contains the following items:

- DS18 EXL-MM68 Midrange Speaker (1 unit)
- Mounting Hardware (screws, clips)
- Instruction Manual (this document)

If any items are missing or damaged, please contact your dealer immediately.

### 4. SETUP AND INSTALLATION

---

Proper installation is crucial for the performance and longevity of your DS18 EXL-MM68 speaker. Follow these steps carefully:

#### 4.1 Mounting

1. **Choose Location:** Select a suitable mounting location in your vehicle that can accommodate the speaker's dimensions.
2. **Measure and Cut:** Using the provided specifications, mark and carefully cut the baffle opening. The recommended baffle cut-out diameter is 9.13 inches.
3. **Check Depth:** Ensure there is sufficient mounting depth, which is 5 inches, to prevent the speaker magnet from interfering with other components.
4. **Secure Speaker:** Place the speaker into the opening and secure it using the supplied mounting hardware. Do not overtighten screws.



*Image 4.1: Illustrative diagram showing typical mounting dimensions and screw hole placement for the DS18 EXL-MM68 speaker. Refer to the specifications for exact measurements.*

#### 4.2 Wiring

Correct wiring ensures proper impedance matching and power delivery.

1. **Identify Terminals:** Locate the positive (+) and negative (-) terminals on the speaker.
2. **Connect to Amplifier:** Connect the speaker to your amplifier's output terminals. Ensure the polarity is correct (speaker positive to amplifier positive, speaker negative to amplifier negative). The speaker has an impedance of 8 Ohms.
3. **Secure Connections:** Ensure all connections are tight and free from shorts.



*Image 4.2: Illustrative wiring diagram showing a typical connection from the DS18 EXL-MM68 speaker to an amplifier. Always match positive to positive and negative to negative terminals.*

### 5. OPERATING INSTRUCTIONS

---

Once installed, your DS18 EXL-MM68 speaker is ready for use. The operation of the speaker is primarily controlled

by your car's head unit and external amplifier.

- **Power On:** Turn on your car's audio system.
- **Volume Adjustment:** Adjust the volume level through your head unit or amplifier. Start with a low volume and gradually increase it to a comfortable listening level.
- **Crossover Settings:** For optimal performance and speaker protection, it is recommended to use an external crossover to filter out frequencies below the speaker's recommended range (90Hz). Consult your amplifier or head unit manual for crossover adjustment.
- **Listening Levels:** Avoid operating the speaker at maximum volume for extended periods, as this can lead to distortion and potential damage.

## 6. MAINTENANCE

---

Regular maintenance will help ensure the longevity and performance of your speaker.

- **Cleaning:** Use a soft, dry cloth to gently wipe the speaker cone and surround. Do not use harsh chemicals or abrasive cleaners.
- **Inspection:** Periodically check the speaker for any signs of damage, such as tears in the cone or surround, or loose connections.
- **Environmental Protection:** Protect the speaker from direct exposure to water, dust, and extreme temperatures.

## 7. TROUBLESHOOTING

---

If you experience issues with your DS18 EXL-MM68 speaker, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound from speaker	Loose or incorrect wiring; Amplifier off or faulty; Head unit issue	Check all wiring connections for proper polarity and tightness. Ensure amplifier is powered on and functioning. Verify head unit output.
Distorted sound	Overpowering speaker; Amplifier clipping; Incorrect crossover settings; Damaged speaker	Reduce volume. Check amplifier gain settings. Adjust crossover frequencies. Inspect speaker for physical damage.
Low volume	Low amplifier gain; Incorrect wiring (e.g., out of phase); Low input signal	Increase amplifier gain. Verify wiring polarity. Check head unit output level.
Speaker rattling or buzzing	Loose mounting; Foreign object in speaker cone; Damaged voice coil or surround	Tighten mounting screws. Inspect speaker for debris. If damage is visible, speaker may need replacement.

If the problem persists after attempting these solutions, contact DS18 customer support or a qualified service technician.

## 8. SPECIFICATIONS

---

Detailed technical specifications for the DS18 EXL-MM68 Midrange Speaker:

Feature	Specification
Model Number	EXL-MM68
Speaker Type	Midrange Woofer
Maximum Output Power	600 Watts
RMS Power	400 Watts
Impedance	8 Ohms
Sensitivity	99dB
Frequency Response	90-7KHz
Magnet Type	28 Oz High-Strength Ferrite
Voice Coil	2" High-Temperature CCAR
Basket Material	Red Color Aluminum
Cone Material	Cloth Edge and Non-Pressed Paper
Baffle Cut-out Diameter	9.13 inches
Mounting Depth	5 inches
Item Weight	5 Pounds
UPC	095225336195

## 9. WARRANTY AND SUPPORT

---

DS18 products are designed and manufactured to the highest quality standards. This product is covered by a limited warranty against defects in materials and workmanship under normal use.

For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official DS18 website. Keep your purchase receipt as proof of purchase.

If you require technical assistance or have questions regarding your DS18 EXL-MM68 speaker, please contact DS18 customer support:

- **Website:** [www.ds18.com](http://www.ds18.com) (Illustrative link)
- **Email:** [support@ds18.com](mailto:support@ds18.com) (Illustrative email)
- **Phone:** Refer to the DS18 website for contact numbers in your region.