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Rockville DESTROYER 12D1

Rockville Destroyer 12D1 12" Competition Car Audio Subwoofer Instruction Manual

Model: DESTROYER 12D1

INTRODUCTION

The Rockville Destroyer 12D1 12" Competition Car Audio Subwoofer is engineered for car audio enthusiasts and competitors seeking powerful, reliable bass. This subwoofer is designed to deliver deep, impactful sound for custom vehicle setups, combining high-grade materials with precision engineering to meet the demands of bass lovers and audiophiles.

KEY FEATURES

- **Powerful Bass Performance:** Delivers 8000W peak, 4000W program, and 2000W RMS power for deep, resonant bass, ideal for car audio competitions and immersive sound systems.
- **USA-Made Voice Coils:** Features 3" 4-layer black aluminum voice coils crafted in the USA, rated for 300-350 degree C, ensuring durability under intense use and consistent performance.
- **Superior Magnet Structure:** Triple-stacked 300 oz Y35 magnets provide unmatched power efficiency, outperforming heavier magnets for precise, high-excursion bass output.
- **Durable, Lightweight Design:** Cast aluminum basket reduces weight while maintaining strength, paired with a tear-resistant Nomex spider for long-lasting reliability in demanding setups.
- **Versatile Installation:** Dual 1-ohm impedance and 11.65" cutout diameter suit sealed (1.41-1.77 cu.ft.) or vented (2.12-2.83 cu.ft.) enclosures, perfect for custom car audio builds.

SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and longevity of your subwoofer. Ensure all connections are secure and impedance matches your amplifier's capabilities.

Enclosure Recommendations

The Destroyer 12D1 is designed for use in both sealed and vented enclosures. The recommended internal volumes are:

- **Sealed Enclosure:** 1.41 - 1.77 cubic feet
- **Vented Enclosure:** 2.12 - 2.83 cubic feet

The subwoofer requires an 11.65" cutout diameter and has an 8.66" mounting depth.

Wiring Configurations

The Destroyer 12D1 features dual 1-ohm voice coils, offering flexibility in wiring to achieve desired impedance loads for your amplifier. Below are common wiring configurations.

Single Dual Voice Coil (DVC) 1-Ohm Subwoofer Wiring

This video demonstrates how to wire a single dual voice coil 1-ohm subwoofer for different impedance loads.

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Video: Wiring Configuration for a Single DVC 1-Ohm Subwoofer. This video illustrates series and parallel wiring options to achieve 2-ohm or 0.5-ohm impedance, respectively.

Two Dual Voice Coil (DVC) 1-Ohm Subwoofers Wiring

This video provides instructions for wiring two dual voice coil 1-ohm subwoofers in series-parallel or series configurations.

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Video: Wiring Configuration for Two DVC 1-Ohm Subwoofers. This video details how to wire two subwoofers to achieve 1-ohm or 4-ohm impedance.

OPERATING INSTRUCTIONS

To ensure optimal performance and prevent damage, follow these operating guidelines:

- **Power Matching:** Ensure your amplifier's RMS power output matches the subwoofer's RMS power handling (2000W). While the subwoofer can handle peak moments of 8000W, continuous operation above RMS can lead to damage.
- **Impedance Matching:** Always match the final impedance of your subwoofer wiring to the stable impedance load of your amplifier. Mismatched impedance can cause amplifier overheating or subwoofer damage.
- **Gain Setting:** Set your amplifier's gain correctly to prevent clipping and distortion. Start with the gain at minimum and slowly increase it until you hear distortion, then back off slightly.
- **Crossover Settings:** Use a low-pass filter (LPF) on your amplifier to ensure only low frequencies are sent to the subwoofer. A typical LPF setting for subwoofers is between 80Hz and 120Hz.
- **Subsonic Filter:** If your amplifier has a subsonic filter, set it to protect the subwoofer from playing frequencies below its resonant frequency, which can cause excessive excursion and damage.



Image: Front view of the Rockville Destroyer 12D1 subwoofer, showcasing its robust design and cone.

MAINTENANCE

Regular maintenance helps extend the life of your subwoofer and ensures consistent performance:

- **Cleaning:** Keep the subwoofer cone and surround free from dust and debris. Use a soft, dry cloth to gently wipe surfaces. Avoid using harsh chemicals.
- **Inspection:** Periodically inspect the speaker terminals, wiring, and cone for any signs of damage, loose connections, or wear.
- **Ventilation:** Ensure the subwoofer enclosure and amplifier have adequate ventilation to prevent overheating, especially during prolonged high-volume use.
- **Avoid Over-Excursion:** Do not push the subwoofer beyond its mechanical limits, which can be identified by audible distortion or visible excessive cone movement.



Image: Angled view of the Rockville Destroyer 12D1 subwoofer, highlighting its cast aluminum basket and terminal connections.

TROUBLESHOOTING

If you encounter issues with your subwoofer, refer to these common troubleshooting steps:

1. No Sound:

- Check all wiring connections from the amplifier to the subwoofer and ensure they are secure.
- Verify the amplifier is powered on and receiving a signal.
- Confirm the head unit is sending an audio signal to the amplifier.
- Check the amplifier's protection mode indicator.

2. Distorted Sound:

- Reduce the amplifier's gain setting.
- Check for proper crossover settings; ensure the subwoofer is not playing frequencies too high for its design.
- Inspect the subwoofer cone and surround for any physical damage.
- Ensure the enclosure is sealed properly (if applicable) and free from air leaks.

3. Overheating:

- Verify the impedance load matches the amplifier's stable rating.
- Ensure adequate ventilation around the amplifier and subwoofer.
- Reduce prolonged high-volume listening.



Image: Rear view of the Rockville Destroyer 12D1 subwoofer, showing the large 8-gauge chrome-plated binding post terminals for wiring connections.

SPECIFICATIONS

Feature	Detail
Speaker Type	Woofer
Subwoofer Diameter	12 Inches
Peak Power	8000 Watts
Program Power	4000 Watts
RMS Power	2000 Watts
Impedance	Dual 1 Ohm

Feature	Detail
Voice Coils	3" 4-layer black aluminum, USA-made
Magnets	Triple-stacked 300 oz Y35
Basket Material	Cast Aluminum
Spider	Tear-resistant Nomex
Recommended Enclosures	Sealed (1.41-1.77 cu.ft.), Vented (2.12-2.83 cu.ft.)
Cutout Diameter	11.65 inches
Mounting Depth	8.66 inches
Product Dimensions	15.75"D x 15.9"W x 14"H
Item Weight	54 Pounds
Included Components	1 x Subwoofer



Image: Top view of the Rockville Destroyer 12D1 subwoofer cone, featuring the "DESTROYER 12D1" logo.

WARRANTY AND SUPPORT

This product comes with a limited warranty. For detailed information regarding warranty coverage, please refer to the included Product Warranty Card or visit the official Rockville website.

For customer support, technical assistance, or service inquiries, please contact the seller, Audiosavings, or Rockville directly. Contact information can typically be found on the product packaging or the official Rockville website.

ROCKVILLE DESTROYER 12D1/12D2 2000W^{RMS} CEA RATED

SPECIFICATIONS

Application: Subwoofer

Basket Type: Cast aluminum with black sanded finish

Cone: Ultra stiff black non-pressed paper cone

Dust Cap: Paper dust cap

Surround Style: High density thick stitched foam

Magnet Weight: 18.75 lbs

3" Dual 1 ohm or 2 ohm 4 Layer Black Aluminum Voice Coil

Impedance: 1 ohm / 2 ohm

1 / RMS / Peak Watts: 2000 / 4000 / 8000

Frequency Response: 37Hz = 1kHz

TECHNICAL DATA

Application: Subwoofer

Cut-out Diameter: 11.65" (295.9mm)

Mounting Depth: 8.66" (219.5mm)

Gap Plate Inside Diameter: 3.37" (85.5mm)

Gap Plate Outside Diameter: 8.27" (210mm)

Gap Plate Thickness: 0.59" (15mm)

Yoke Outside Diameter: 8.27" (210mm)

Yoke Pole Diameter: 2.91" (73.9mm)

Yoke Thickness: 0.98" (25mm)

Washer Diameter: 0.6" (15mm)

Weight: 49.61 lbs

RECOMMENDED BOX DIMENSIONS

Sealed enclosure: 1.41 – 1.77 cubic feet

Vented Enclosure: 2.12 – 2.83 cubic feet

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HANDLES OVER
THE RATED POWER

TS PARAMETERS

12D1 1-Ohm

- Revc: 1.70 Ohm
- Sd: 85.9 dB
- Fo: 37.649 Hz
- Vas: 23.090 Ltr
- Sd: 47.144 mM
- Sd: 73.163 mm/N
- Md: 320.000 g
- Mm: 6.808m Ohm
- BL: 14.252 T
- Qms: 0.783
- Qms: 3.627
- Qms: 0.414
- Qms: 0.357
- No: 0.246%
- Mms: 244.251 g
- Mms: 238.365m Kg
- Kmr: 67.072m H
- Exm: 0.549

12D2 2-Ohm

- Revc: 3.60 Ohm
- Fo: 37.489 Hz
- Sd: 47.144 mM
- Md: 320.000 g
- BL: 21.670 T
- Qms: 2.743
- Qes: 0.448
- Qts: 0.385
- No: 0.261%
- SPLo: 86.2 dB
- Vas: 22.939 Ltr
- Sd: 72.683 mm/N
- Mm: 12.956m mm/N
- Erm: 0.793
- Mms: 247.977 g
- Mms: 242.091m Kg
- Kmr: 134.220m H
- Exm: 0.556

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ROCKVILLE
Product Warranty Card

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Image: The Rockville Destroyer 12D1 specifications sheet and product warranty card, providing detailed technical data and warranty information.

PRODUCT OVERVIEW VIDEO

Watch this video for a comprehensive overview and demonstration of the Rockville Destroyer series subwoofers, highlighting their features and performance.

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Video: Overview of the Rockville Destroyer Subwoofers. This video provides a detailed look at the design, components, and powerful performance of the Destroyer series.