

MMATS

Professional Audio®

PANEL LAYOUT



Speaker & Remote Terminals

RCA Inputs

Power/Fault LEDs

Lowpass Filter

Gain



4 AWG Power Terminals



D700.1

Owner's Guide

SPECIFICATIONS

RMS Power at 13.8V

700W into 1 ohm with less than 1% THD+N

S/N Ratio: -92db A-Wtd

Frequency Response: <10 to 225Hz

Lowpass Filter: Variable 24db, 70 to 200Hz

Idle Current: 1A

Dimensions (LxWxH): 10" x 9.25" x 2.25"

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FEATURES

- **Ultra- Efficient Class D Audio Output Stage**
- **Proven Contest Winning Power**
- **Dual Regulated Pulse-Width-Modulated Power Supply**
- **High Capacity Heat Sink**
- **Adjustable 24db Low Pass Filter**
- **1% Surface Mount Components**
- **Computer Optimized Transformer**
- **Large Geometry Power MOSFETs**
- **Overload and Thermal Protection**

SUGGESTED HOOKUP

This Amplifier is optimized to run into 1 ohm loads

This can be configured many ways:

4 four ohm woofers @ 175Wrms each

3 three ohm woofers @ 233Wrms each

2 two ohm woofers @ 350Wrms each

CONTROLS AND CONNECTORS

Positive Power Terminal - This is the power feed from the positive (+) terminal of the car's battery. Use 4 gauge cable and good quality terminals when routing this connection. Tighten the connections well to prevent power loss due bad contact. Route the power cable away from the RCA and speaker cables

Ground Terminal - For optimum performance, an 4 gauge cable and good quality connectors should attach the this terminal to the battery's negative (-) terminal.

Remote Terminal - The amplifier will turn on when 12 volts is applied to this terminal. This 12 volt signal is usually taken from the Power Antenna or Remote wire coming from the source unit.

Speaker Terminals – Two pairs of (+) and (-) terminals are provided for ease of connecting multiple woofers. It does not matter which (+) or (-) you use as they are connected together internally. Running too low of a speaker impedance will cause the amplifier to go into a fault condition.

Lowpass Filter – Linkwitz/Riley 24db slope. This control sets the 6db down point of your amplifier. Higher frequencies beyond this setting are not heard from your speakers.

Gain – Allows input levels between 150mV and 2.5 volts for full output.

Inputs – Two RCA jacks are provided. Their signals are added together inside the amplifier and the bass information is extracted. Since they are summed together, it does not matter which one is 'Left' or 'Right'.