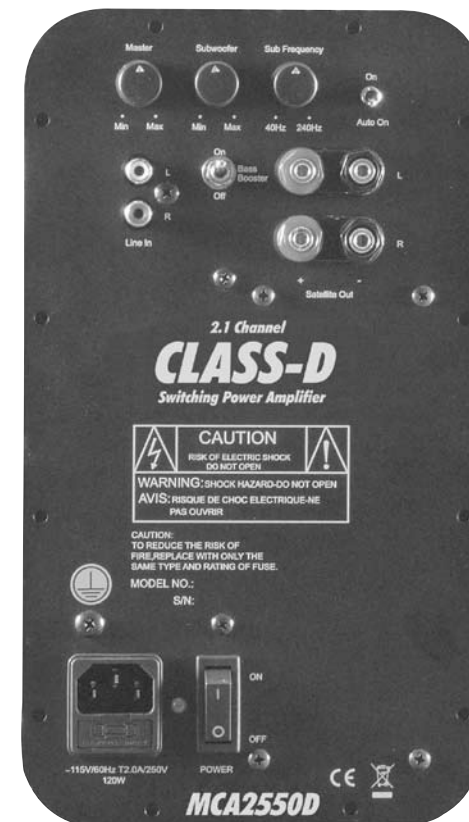




# 100 Watt 2.1 Channel Amplifier MCA2550D



## User's Manual

*Thank you for purchasing the MCA2550D 2.1 Channel Amplifier. It was designed and built to provide years of high quality sound reproduction, and is ideal for use in music playback and home theater systems. The amplifier includes features like efficient Class "D" technology, independent amplifiers, selectable subwoofer crossover frequency, auto on/off circuitry, and internal protection against shorted speaker loads, thermal faults, and overload conditions.*

## Features:

- Independent high frequency and low frequency amplifiers
- Efficient Class D technology
- Master level control
- Subwoofer level control
- Variable subwoofer crossover
- Switchable +3dB bass boost
- Line level inputs
- Thermal, overload and fuse protection circuitry
- LED power status indicator

## Front Panel Controls/Connections

### Power Switch

#### ON/OFF

The amplifier is manually turned ON or OFF via this switch. When the power switch is moved to the "ON" position, the amplifier will be in one of two modes depending on the "On/Auto on" switch position.

#### On/Auto On

When the "On/Auto on" switch is in the "On" position the amplifier will operate normally. When in the "Auto on" position the amplifier will operate normally when a signal (via RCA input) is present and go in "stand by" mode when idle (no signal present). In standby mode the current draw and heat generated is low therefore it is not a problem to leave in the "Auto on" position indefinitely.

**Note:** The "ON/OFF" power switch must be in the "ON" position to operate regardless of the "On/Auto on" switch setting.

### Master Level Control

This adjusts the overall output level of the amplifier, both subwoofer and satellites simultaneously.

### Subwoofer Level Control

Independently adjusts low frequency output level to the subwoofer only. Adjustment range is 0 ~ +5dB.

### Bass Boost (On/Off)

When in the "On" position the amplifier subwoofer output is increased 3dB centered at 63Hz.

### Subwoofer Frequency Control

Independently adjusts low pass frequency to the subwoofer only. Adjustment range is 40 ~ 200Hz.

### Input

RCA female connection accepts standard line level signal. This is suitable for connection to home theater equipment as well as mixing console outputs in studio applications.

### Power Input

This unit features an IEC grounding type power input connector. The IEC connector allows the user to quickly exchange the power cord if it is damaged, or if a longer cord is desired.

### Fuse

Replace with only 5mm x 20mm, fast blow 3.15A, 250V type fuse.

## Input / Output Connections

### Line Input:

Line level RCA input accepts nominal 400mV p-p signal.

### Speaker Outputs

#### Satellite

The two pair (left "L" and right "R") of binding post located on the front panel, each color coded red "+" and black "-", contain an active 12dB/octave high pass filter for satellite speaker connection. Load on each output must have a nominal impedance of 8 ohm or higher.

#### Subwoofer

There is one set of speaker outputs, red "+" and black "-" wires, located on the rear (PC board side) of the amplifier module. More specifically at the bottom of the larger PC board that is perpendicular to the front panel. This amplified output contains an active 12dB/octave variable low pass filter for subwoofer speaker connection. Load on output must have a nominal impedance of 4 ohm or higher.

## Specifications

### Satellite Section

Speaker Impedance:	8 ohm
Power Output:	25W RMS x 2 @ 8ohm
Frequency response:	200Hz - 20KHz
THD:	Less than 1% @ rated power
S/N Ratio:	Greater than 90dB at rated power

### Subwoofer Section

Speaker Impedance:	4 - 8 ohm
Power Output:	50W RMS @ 4ohm
Variable Low Pass	
Frequency:	40Hz ~ 200Hz
THD:	Less than 1% @ rated power
S/N Ratio:	Greater than 90dB at rated power
Bass Boost:	+3dB centered at 63Hz

### General

Crossover Slope:	12dB / octave low pass and high pass filters
Power Requirements:	120VAC, 60Hz
Overall Dimensions:	10 7/16" (H) x 5 7/8" (W) x 4-1/2" (D)
Required Opening:	9 1/4" (H) x 4 5/8" (W)