

## Autotek MM2020.1D

# Autotek MM2020.1D The Mean Machine Monoblock Class D Amplifier User Manual

## INTRODUCTION

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The Autotek MM2020.1D The Mean Machine Monoblock Class D Amplifier is designed to deliver high power output with minimal distortion for a mono subwoofer system. Featuring Pro-Fi high-speed MOSFETs and Class D technology, this amplifier provides efficient power in a compact design. It offers flexible connectivity options, including RCA outputs for daisy-chaining multiple amplifiers.

## SAFETY INFORMATION

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**WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.**

## PRODUCT OVERVIEW

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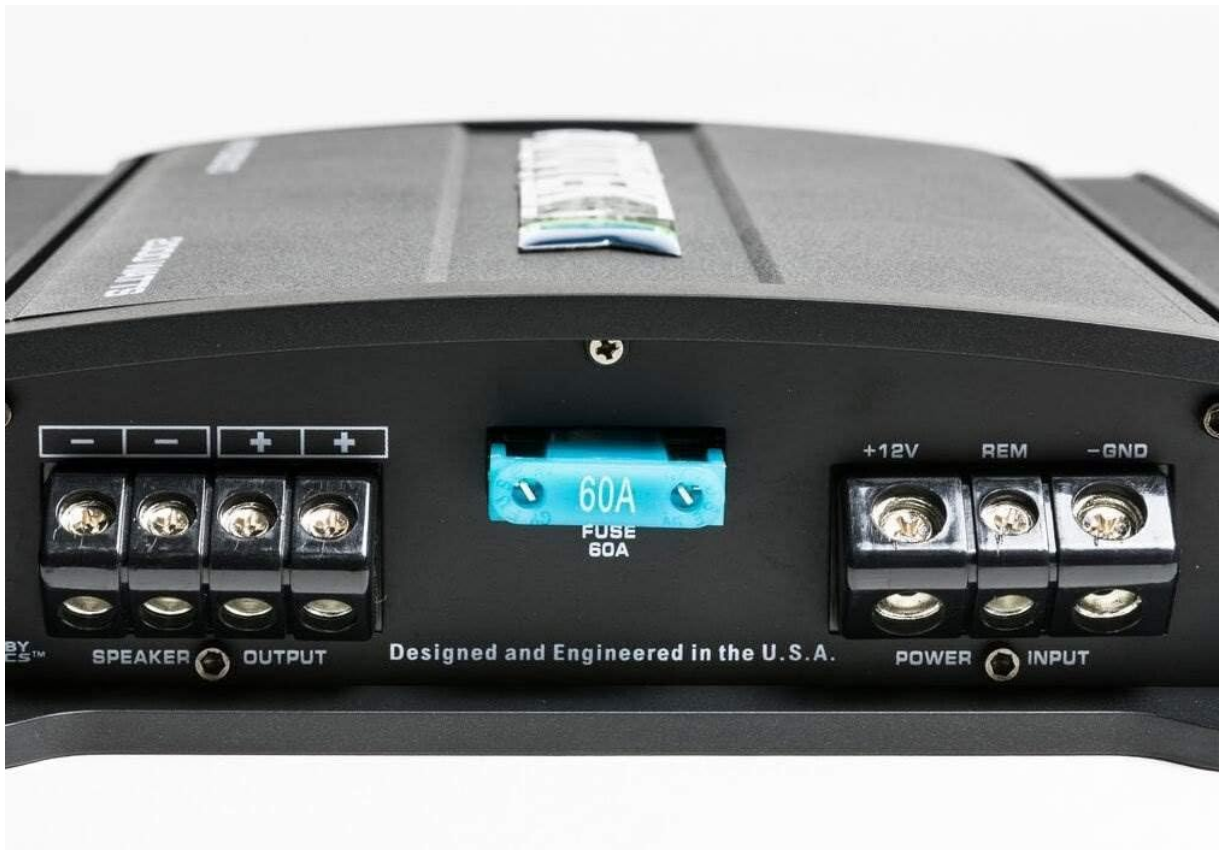
### Key Features

- 2,000 watts mono bridged x 1 @ 4 ohms
- 500 watts x 1 @ 4 ohms
- 1,000 watts x 1 @ 2 ohms
- 0 to 12 dB bass boost
- Road Worthy TCID (Twin Coil Isolation Design) and Pro-Fi High Speed MOSFETS for extreme power with high sound quality and minimum distortion levels.

### Amplifier Layout



Rear panel view of the Autotek MM2020.1D amplifier, showing all input, output, power, and control connections.



Close-up of the power and speaker output terminals on the Autotek MM2020.1D amplifier, including the 60A fuse.



Close-up of the input level, subsonic filter, low pass filter, bass boost, and RCA input/output connections on the Autotek MM2020.1D amplifier.

## SETUP AND INSTALLATION

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### Power Connections

Connect the +12V terminal to the positive terminal of the car battery using appropriate gauge wire. Connect the -GND terminal to a solid chassis ground point. Ensure all connections are secure.

### Speaker Connections

Connect your subwoofer(s) to the SPEAKER OUTPUT terminals. Ensure correct polarity (+ to + and - to -). This amplifier is designed for mono subwoofer systems.

### Input/Output Connections

Use RCA cables to connect the INPUT from your head unit or signal source. The OUTPUT RCA connections can be used to pass the audio signal to another amplifier.

### Remote Turn-On

Connect the REM terminal to the remote turn-on output of your head unit. This will turn the amplifier on and off with your car's audio system.

### Fuse Installation

The amplifier includes a 60A fuse. Ensure it is properly seated in its holder. Always replace with a fuse of the same rating.

## OPERATION

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## Input Level Adjustment

Adjust the INPUT LEVEL control (0.2V to 6V) to match the output voltage of your head unit. Start with the lowest setting and gradually increase until desired volume is achieved without distortion.

## Subsonic Filter

Use the SUBSONIC FILTER control (10Hz to 40Hz) to filter out extremely low frequencies that are inaudible and can waste amplifier power. Adjust based on your subwoofer's capabilities.

## Low Pass Filter

Adjust the LOW PASS filter (40Hz to 300Hz) to control the upper frequency limit of the amplifier's output, ensuring only bass frequencies are sent to the subwoofer.

## Bass Boost

The BASS BOOST control (0dB to 12dB) allows for an increase in bass output at a specific frequency. Use sparingly to avoid distortion.

## Indicator Lights

- **POWER** (Green): Illuminates when the amplifier is receiving power and operating normally.
- **PROTECT** (Red): Illuminates when the amplifier enters protection mode due to a fault (e.g., short circuit, overheating, low voltage).

## MAINTENANCE

To ensure optimal performance and longevity of your Autotek MM2020.1D amplifier, keep it free from dust and debris. Periodically check all wiring connections for tightness and corrosion. Avoid exposing the amplifier to excessive moisture or extreme temperatures.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
No Power (POWER LED off)	No +12V, GND, or REM connection	Check all power, ground, and remote wire connections. Verify fuse.
Amplifier in Protection Mode (PROTECT LED on)	Short circuit in speaker wiring, overheating, low voltage	Check speaker wiring for shorts. Ensure adequate ventilation. Verify vehicle's electrical system voltage.
No Sound Output	No input signal, incorrect gain setting, speaker wiring issue	Check RCA input cables. Adjust INPUT LEVEL. Verify speaker connections and polarity.
Distorted Sound	Input level too high, incorrect filter settings, damaged speakers	Reduce INPUT LEVEL. Adjust SUBSONIC FILTER and LOW PASS filter. Check speaker condition.

## SPECIFICATIONS

Feature	Specification
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Feature	Specification
Model	MM2020.1D
Output Power (Bridged Mono @ 4 Ohms)	2,000 Watts x 1
Output Power (Mono @ 4 Ohms)	500 Watts x 1
Output Power (Mono @ 2 Ohms)	1,000 Watts x 1
Number of Channels	1 (Monoblock)
Voltage	6 Volts (Operating)
Item Dimensions (L x W x H)	11.81 x 9.84 x 2.28 inches
Item Weight	454 Grams
Material Type	Aluminum alloy
Mounting Type	Surface Mount
Warranty	1 year
Included Components	Product, Manual
UPC	806576228042

## WARRANTY INFORMATION

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The Autotek MM2020.1D amplifier comes with a 1-year limited warranty from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. For full warranty terms and conditions, refer to the documentation included with your product or visit the official Autotek website.

## SUPPORT

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For technical assistance, troubleshooting, or warranty inquiries regarding your Autotek MM2020.1D amplifier, please visit the official Autotek website or contact their customer support department. Ensure you have your product model number (MM2020.1D) and proof of purchase available when seeking support.