

since 1988



HIGH-PERFORMANCE CAR-AMPLIFIER

OWNER'S MANUAL

M-SERIES
BY AUDIO SYSTEM



M-700.1 MD
M-750.1 MD 24V

Congratulation on your purchase of your new **M-SERIES** amplifier.

IMPORTANT: Before installation your power amplifier, we recommend to read the owner's manual carefully and to follow the instructions regarding connection and fitting exactly.

ATTENTION: Pay attention to advices and instructions of the car manufacturer.

IMPORTANT: Your proof of purchase is evidence of warranty claim for repair or replacement. Keep your proof of purchase, manual and original packaging.

ATTENTION: Use of sound components can impair your ability to hear necessary traffic sounds and may constitute a hazard while driving your automobile.

AUDIO SYSTEM GERMANY accepts no liability for hearing loss, bodily injury or property damage as a result of use or misuse of our products. We recommend installing the equipment by an authorized service center or dealer. A professional fitting and connection is the requirement for further warranty and perfect sound.

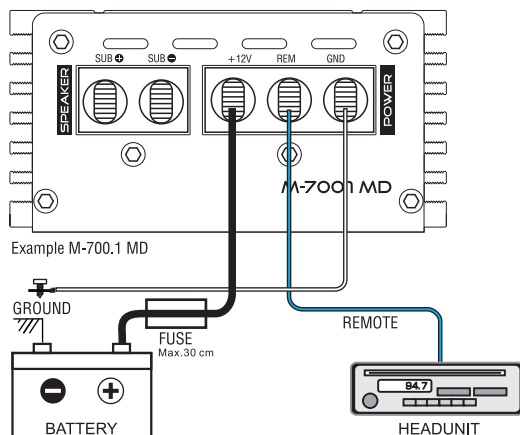
M-700.1 MD

- 1-Channel digital Mono-High-Power amplifier
- High efficiency of max. 84 %
- Stable into 1 Ohm mono
- Variable Low Pass Filter from 50 to 300 Hz
- Variable Subsonicfilter from 10 to 50 Hz
- Input Sensitivity from 0,4 to 8 V
- Multi-Way Protection Circuitry: overheating, overcurrent, short circuitry and speaker DC protection
- Operation Voltage from 10 to 16 V
- Wired Remote Controller **RTC PC** included
- High-Level-Input with automatically „TURN ON“
- Adapter cable **HLAC** und **RCA HI**(optional)

M-750.1 MD 24V

- 1-Channel digital Mono-High-Power amplifier for trucks / buses
- High efficiency of max. 84 %
- Stable into 1 Ohm mono
- Variable Low Pass Filter from 50 to 300 Hz
- Variable Subsonicfilter from 10 to 50 Hz
- Input Sensitivity from 0,4 to 8 V
- Multi-Way Protection Circuitry: overheating, overcurrent, short circuitry and speaker DC protection
- Operation Voltage from 20 to 32 V
- Wired Remote Controller **RTC PC** included
- High-Level-Input with automatically „TURN ON“
- Adapter cable **HLAC** und **RCA HI**(optional)

M-700.1 MD / M-750.1 MD 24V



1. Battery disconnection

First, disconnect the power supply of the vehicle by removing the ground cable of the battery.

2. Ground connection

Connect the GND (ground) connection of the amplifier with the car chassis.

Keep this cable as short as possible (not longer than 50 cm) and use a suitable cross section (AWG size 8-6).

Make sure, that the connection with the vehicle chassis is free of paint, dirt and dust.

3. Power connection

Connect the +12V(+24V for **M-750.1 MD 24V**) connection of the amplifier with the supply cable via a fuse directly to the vehicle battery. Keep in mind, that the length of the cable from fuseholder to vehicle battery has to be maximum 30cm. For the amplifier to function at its best, use a high quality fuse holder and suitable cable preferably AWG 8-6 cable. This fuse protects the amplifier and the vehicle against the possibility of a short circuit in the power cable.

4. Remote connection

Connect the REM terminal of the amplifier to the remote-output for amplifier or antenna-output of the head unit. Use a 0,5 - 1,5 mm power cable.

When using High-Level-Input with Auto-Turn-On this terminal does not need to be connected.



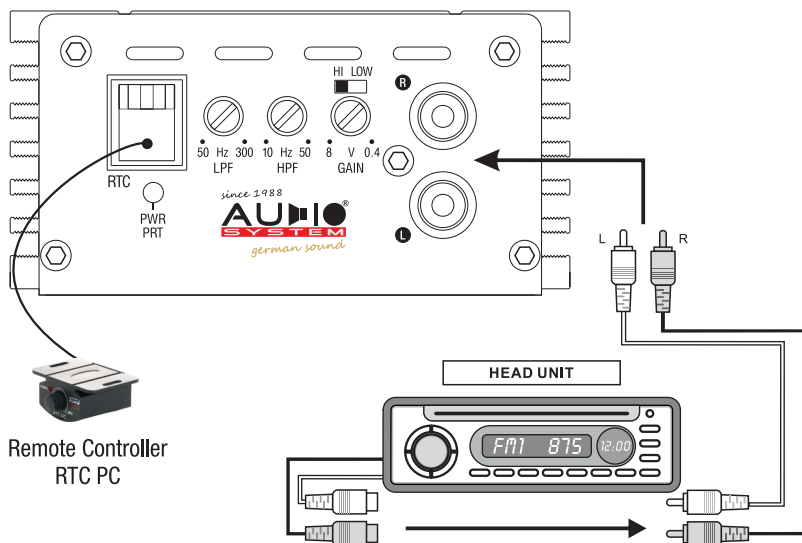
ATTENTION



Please follow the instructions during the installation of your amplifier:

1. Take care of a professional attachment. Pay attention, that no electrical cable, gas tank, hydraulic breakes or other components get damaged.
2. There has to be enough cooling and air circulation. Avoid the installation in small closed boxes or close to heatening parts.
3. Protect the amplifier from fluids, wetness, heat and foreign material as well as from other influences.
4. The amplifier is only to be built into vehicles with a 12 V / 24 V DC power supply.
5. Never install the power supply cable with other original wires of the vehicle (gas cables), fan motors, fire control moduls etc.
6. Install the signal cable (RCA cable) as well as the speaker cable far away of the power cables to avoid noise to the music signal.
7. The cables of your amplifier have to be installed, so that there is no danger of binding, squeezing or breaking.

M-700.1 MD / M-750.1 MD 24V



The **M-SERIES** amplifier offers RCA-Inputs, which are connected through cinch cables with the preamplifier-outputs of the head unit. **HLAC** and **RCA HI** adapter cable can be purchased as optional accessories if the head unit has no RCA output. If the M-SERIES amplifier gets a signal from head unit output, the amplifier will turn on when using high input mode. Please set the input mode switch to HI.

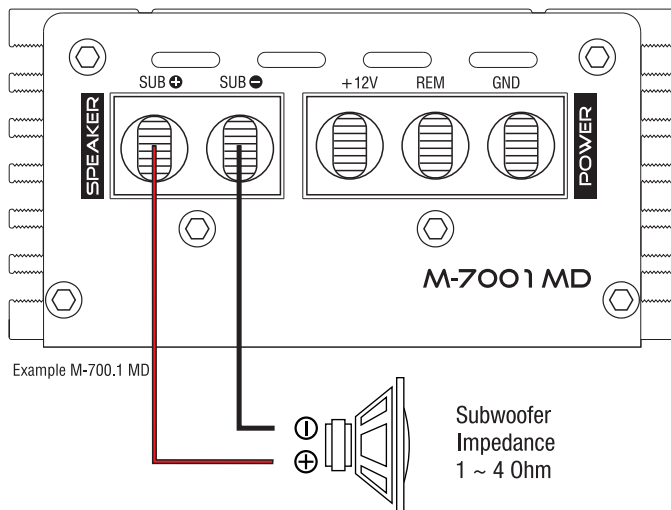
Important in this respect is, that first the gain-control of the connected amplifier is put to minimum. Turn up only if necessary.

With the aid of the variable subsonicfilter, lowpassfilter, and the gain-controller you are able to adjust the amplifier on to your preferred taste of hearing, the circumstances of the vehicle and to the speakers.

Optional a wired remote controller **RTC PC** (enclosed) can be installed. It allows you to adjust the amplifier gain from passenger seat in front of the car.

In this regard, **AUDIO SYSTEM GERMANY** recommends to adjust your amplifier through a specialized service center, dealer or a specialist.

M-700.1 MD / M-750.1 MD 24V



Please note that this unit is a mono block amplifier and has only one channel. When connecting 2 subwoofers or a dual voice coil subwoofer in parallel configuration the resulting impedance will be the half. For example, if you connect two 2 ohm subwoofers, the amp will see a resulting impedance of 1 ohm.

This power amplifier is featured with an efficient protection system to prevent any damages like over-heating, overvoltage, short-circuit and DC at the loudspeaker output.

Occuring an error the protection-LED will light in red. In order to check the problem, first turn down all levels of the head unit, afterwards turn it off.

Amplifier not power up, no LED lightening	- ground connection professional connected? - +12V / +24V powercable professional connected? - remote cable professional connected? - fuses inserted and alright? - analyze voltage on the amplifier
Amplifier no sound, LED lightening	- cinch cable alright and professional connected - loudspeaker professional connected? - head unit alright?
Amplifier power up but Protect LED lightening	- amplifier too hot? - short-circuit at the loudspeaker output? - short-circuit caused by loudspeaker cable with vehicle chassis (ground)? - operation voltage checked?
Overheating (red Protect-LED lightening)	- impedance alright? - loudspeaker error? - adequate airflow of the amplifier? ! CAUTION ! After cooling down, the amplifier turns on automatically.
Error in amplifier fuse	- ground professional connected? - loudspeaker impednce alright? - operatin voltage high enough? ! CAUTION ! Make sure when changing fuses to use the same value.
Sound too low or low distorted sound	- output level control of the head unit alright? - GAIN adjusted properly to headunit? - loudspeaker error? - loudspeaker cable checked? - crossover frequencies has been properly set?
High hiss-engine noise in speakers	- ground connection professional connected? - cinchcable (RCA) and/or loudspeaker cabel installed too close to the power connection cable? - cinch ground (RCA) of the head unit alright?



ATTENTION



Please contact your specialized dealer if the amplifier is still not working after it has been checked with the error list!

For warranty adjustement / repairs the original invoice has to be attached!

Opening the power amplifier is leading to a lost of warranty in either case!

M-7001 MD

Power supply voltage	9 - 16V
Rated output power at 14.4 V	
-RMS power @ 4 Ohm Stereo	1x 300W
-RMS power @ 2 Ohm Stereo	1x 500W
-RMS power @ 4 Ohm Bided	1x 700W
Signal to noise ratio	> 90dB
Bandpassfilter CH1/2 CH3/4	50 ~ 300 Hz
Hochpassfilter CH1/2 CH3/4	10 ~ 50 Hz
Frequency response	10 Hz ~ 300 Hz Hz (+/-1dB)
THD @ 4 Ohm and 1/2 rated power	< 0.1%
Fuse rating	2x 35 A
Input sensitivity	400 mV ~ 8 V
Dimensions	144(L)x 45(H) x 88(W) mm



M-750.1 MD 24V

Power supply voltage	18 - 32V
Rated output power at 28.8 V	
-RMS power @ 4 Ohm Stereo	1x 300W
-RMS power @ 2 Ohm Stereo	1x 525W
-RMS power @ 4 Ohm Bided	1x 750W
Signal to noise ratio	> 90dB
Bandpassfilter CH1/2 CH3/4	50 ~ 300 Hz
Hochpassfilter CH1/2 CH3/4	10 ~ 50 Hz
Frequency response	10 Hz ~ 300 Hz Hz (+/-1dB)
THD @ 4 Ohm and 1/2 rated power	< 0.1%
Fuse rating	1x 30 A
Input sensitivity	400 mV ~ 8 V
Dimensions	144(L)x 45(H) x 88(W) mm

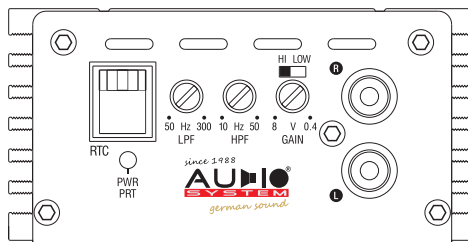
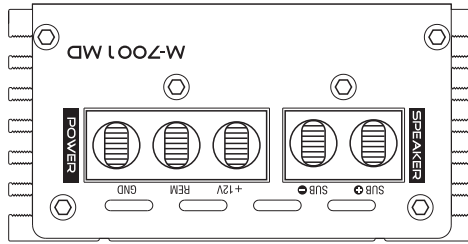
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german sound

AUDIO SYSTEM GERMANY
FALLTORSTRASSE 6 - 76707 HAMBRÜCKEN

DESIGNED AND ENGINEERED BY AUDIO SYSTEM GERMANY
WWW.AUDIO-SYSTEM.DE



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WWW.AUDIO-SYSTEM.DE

