



HIGH-PERFORMANCE
CAR-AMPLIFIER

OWNER'S MANUAL

H SERIES
AMPLIFIER

H 3000.1

DESIGNED AND ENGINEERED BY AUDIO SYSTEM GERMANY

Congratulations on your purchase of your new

H SERIES amplifier.

Before install your power amplifier, we recommend that you read the owner's manual carefully and follow the instructions on making the proper connections and mounting

We advise that the amplifier be install by an authorized service center as professional mounting and connections will prolong the warranty of your amplifier.

HSERIES
AMPLIFIER

FEATURES

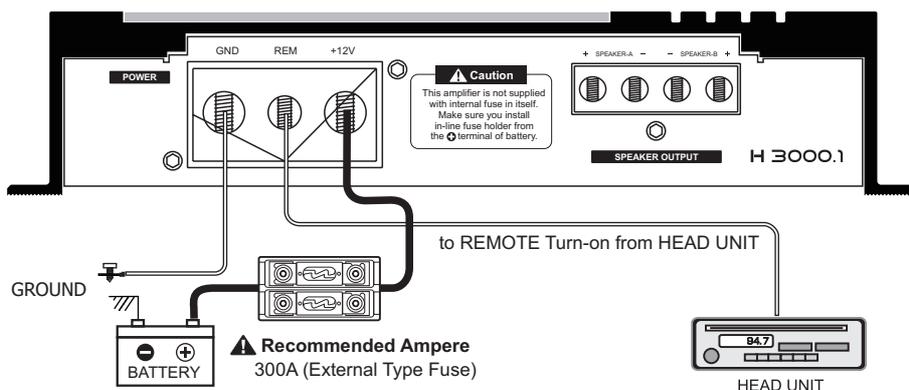
H 3000.1

- * High Power Digital Class-D mono amplifier
- * Possibility to link 2x H 3000.1 with Max-Power 7500 watt RMS
- * Durable double sided through-hole Epoxy Circuit Board
- * Stable into 1 ohm load
- * Daisy-chain through output RCA
- * Two amp linkable function : Output Master and Input Slave
- * High efficiency of 86%
- * 24dB/oct variable crossover
- * **Multi-Way Protection Circuitry** (thermal/over current/speaker short /speaker DC protection)
- * High quality tiffany RCA inputs/outputs
- * Variable Subsonic Filter
- * Variable Bass Boost from 0 to 12 dB
- * Variable Low Pass Filter
- * Variable Phase Shift
- * Zero(0) gauge power supply connectors
- * Tested voltage & THD : 14.4V & less than 1% THD
- * Operating voltage : DC 10V to 16V power input
- * Wired Remote Controller **RTC** (Optional)

POWER CONNECTION

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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 in mind, that the length of the cable as short as possible (not longer than 50 cm) and use a suitable cross section (AWG size 6 - 4). Make sure, that the connection with the vehicle chassis is free of paint, dirt and dust.

3. +12 V Power connection

Connect the +12 V contact 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 6-4 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 (automatic 12 V antenna-output) of the head unit. Use a 0,5 - 1,5 mm power cable.

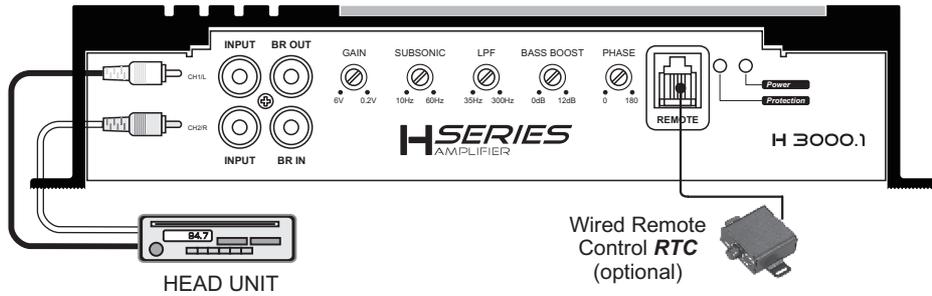
⚠ Caution ⚠

Please take the following precautions when installing your amplifier:

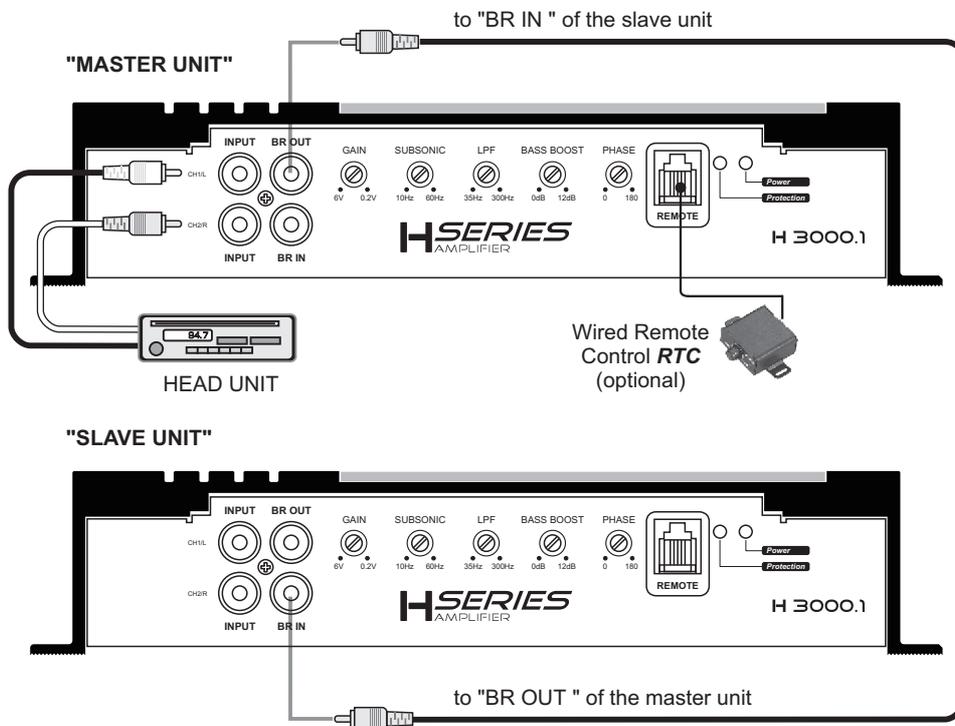
- Take extra care when making the connections. Make sure that no electrical cable, gas tank, hydraulic brakes or other components get damaged.
- Allow enough cooling and air circulation and avoid installing the unit in small closed boxes or close to parts that heats up easily.
- Keep the amplifier away from liquid, moisture, heat and foreign materials.
- This amplifier can only be used in vehicles with 12V DC power supply.
- Never install the power supply cable with other original vehicle wires (gas cables), fan motors, control modules etc.
- Install the signal cable (cinch cable) as well as speaker cable far away from the power cables to avoid interference with music signals.
- To avoid dangers of cables binding, squeezing or breaking, use the cables supplied with your amplifier.

H 3000.1

1. Single Amp Input Connection



2. Strapped Dual Amp Input Connection (MASTER & SLAVE RCA Connection)



The H SERIES amplifier offers RCA-Inputs, which are connected through cinch cables with the preamplifier-outputs of the head unit.

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

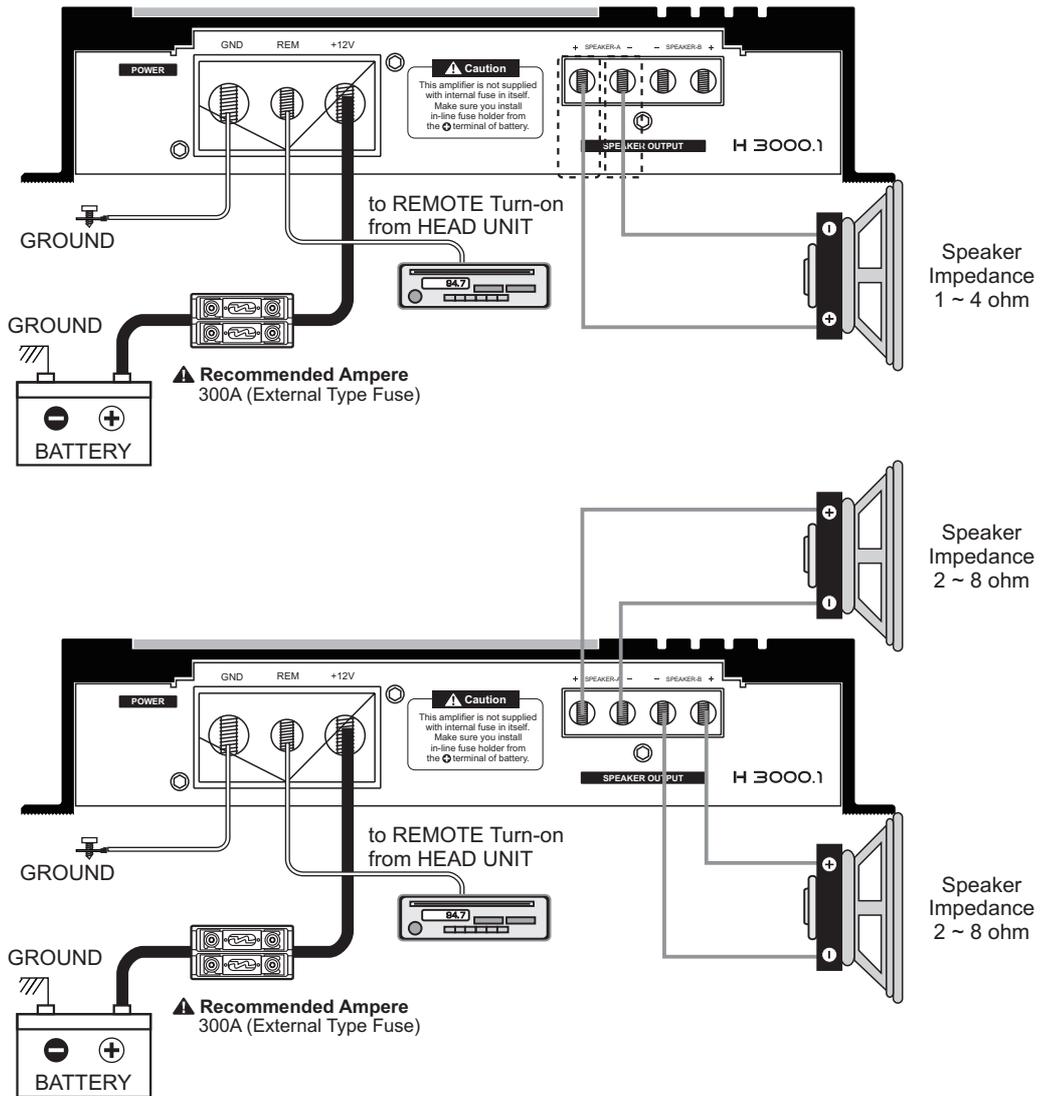
Optional the H 3000.1 can be installed to a wire remote controller RTC, which allows you to rule the amplifier in front of the car.

SPEAKER CONNECTION

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H 3000.1

1. Single Amp Speaker Connection



Please note that this unit is a mono block unit and only has one channel.

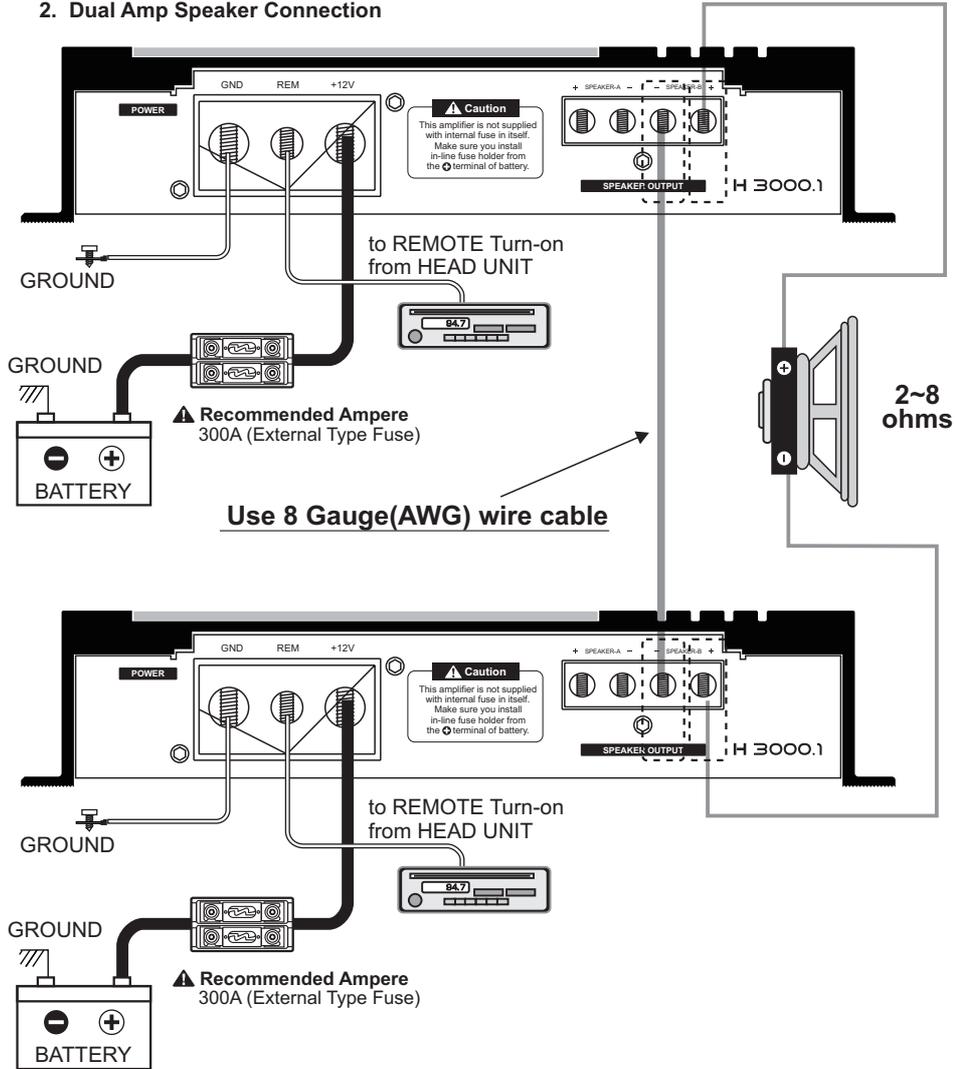
Speaker A and Speaker B are just labeled for illustration purposes only.

Connecting to either the positive or negative of either of the two connections will end in the same result as both positive connections (or both negative connections) are tied together inside the unit.

For example, if you connect two 2 ohm subwoofers, the amp will parallel the connections for an 1 ohm load.

H 3000.1

2. Dual Amp Speaker Connection



Using a dual amplifier configuration, the MASTER amplifier has total control over the SLAVE amplifier. The positive terminal of the subwoofer's voice coil must be connected to the positive terminal of the MASTER Amplifier and the negative terminal of the subwoofer's voice coil must be connected to positive terminal of the SLAVE Amplifier. Since the dual amplifier configuration has tremendous output potential, please ensure that your subwoofers can handle such a large amount of power.

⚠ Caution
In strapped mode, the total impedance must be at least 2 ohms.
Any impedance less than 2 ohms can possibly damage your amplifiers.

TROUBLE SHOOTING

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This power amplifier is featured with a 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 IS NOT POWERED UP, NO LED IS LIGHTENING	<ul style="list-style-type: none"> - ground connection professional connected? - +12V powercable professional connected? - remote cable professional connected? - fuses inserted and alright? - analyze voltage on the amplifier.
PROTECTION LED ILLUMINATES GREEN WHILE AMPLIFIER IS SOUNDLESS	<ul style="list-style-type: none"> - cinch cable alright and professional connected? - loudspeaker professional connected? - head unit all right?
PROTECTION LED ILLUMINATES RED WHEN AMPLIFIER IS POWERED UP	<ul style="list-style-type: none"> - amplifier too hot? - short-circuit at the loudspeaker output? - short-circuit caused by loudspeaker cable with vehicle chassis (ground)? - input voltage too high (e.g.faulty lighting dynamo)?
OVERHEATING (PROTECTION LED ILLUMINATES RED WHEN AMPLIFIER IS POWERED UP)	<ul style="list-style-type: none"> - impedance alright? - loudspeaker error? - adequate airflow of the amplifier? <p style="text-align: center;">! CAUTION !</p> <p>After cooling down, the amplifier turns on automatically.</p>
ERROR IN AMPLIFIER FUSE	<ul style="list-style-type: none"> - ground professional connected? - loudspeaker impedance alright? <p style="text-align: center;">! CAUTION !</p> <p>Make sure when changing fuses to use the same value</p>
SOUND TOO LOW OR LOW-DISTORTED SOUND	<ul style="list-style-type: none"> - input level control "GAIN" is set to match the head unit? - output level control of the head unit alright? - loudspeaker error? - loudspeaker cable checked? - crossover frequencies has been properly set? (Check head unit, amplifier, DSP, soundprozessor, equalizer, frequency bandpassfilter...)
HIGH HISS-ENGINE NOISE IN SPEAKERS	<ul style="list-style-type: none"> - ground connection professional connected? - short-circuit caused by loudspeaker cable with vehicle chassi (ground)? - cinchcable (RCA) and/or loudspeaker cabel installed too close to the power connection cable? - cinch ground (RCA) of the head unit alright?

⚠ CAUTION ⚠

Please contact your specialist 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 or disassembling the power amplifier will void your warranty!

H 3000.1

Power Supply Voltage	10 -16 V
Rated Power Output at 14,4 V	
-RMS power @ 2 ohm linkable/dual mono	5400W x 1CH
-RMS power @ 1 ohm mono	3000W x 1CH
-RMS power @ 2 ohm mono	1500W x 1CH
-RMS power @ 4 ohm mono	750W x 1CH
Signal to Noise Ratio	>95dB
Low pass frequency crossover	35Hz~300Hz
Subsonic filter	10Hz~60Hz
Bass boost @ 45Hz	0~12dB
Phase shift control	0~180 degree
Frequency response	10Hz~350Hz (+/- 1dB)
T.H.D @ 4 ohm	<0.1%
Efficiency @ 4 ohms	86%
Fuse rating	300A(external type fuse)
Input sensitivity	200mV to 6V (+/- 5%)
Dimensions (mm)	594(L) x 50(H) x 248(W)