

FOR-X XAP-7000.1D High Performance Amplifier



FOR-X XAP-7000.1D High Performance Amplifier Owner's Manual

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FOR-X

FOR-X XAP-7000.1D High-Performance Amplifier



Specifications

- Model: XAP-7000.1D / XAP-8500.1D
- RMS Power @ 4 ohm: 2200W x 1 / 2900W x 1
- RMS Power @ 2 ohm: 4000W x 1 / 5000W x 1
- RMS Power @ 1 ohm: 7000W x 1 / 8500W x 1
- Amplifier Type: Class D
- Minimum Load Impedance: 1 ohm stable
- Input Sensitivity: 0.2V – 6V
- High Pass Filter: 35Hz – 250Hz
- Low Pass Filter: 10Hz – 50Hz
- Subsonic Filter: 10Hz – 250Hz
- Frequency Response: 10-250Hz
- Signal to Noise Ratio: 86dB
- THD @ 4ohm: 0.1%
- Damping Factor: >200
- Working Voltage: 9V – 16V
- Dimensions (L x W x H): XAP-7000.1D – 9.45 x 2.44 x inches, XAP-8500.1D – 33.94 inches

Product Usage Instructions

Power Connection:

Run a remote turn on cable from the switched 12V source. Connect the remote turn on cable to the REM (remote) terminal.

Troubleshooting

XAP-series amplifiers have protection features to prevent damages from misuse or faulty conditions. If the protection indicator lights up due to excessive heat, short-circuited speakers DC, or voltage, turn all levels down and power off to check for wiring mistakes or shorts.

If the amplifier shuts down due to excessive heat, allow it to cool down before operation.

No Sound (No Output)

- Check all connections, cable routing, shorts, and voltage.
- Verify the fuses are not blown; replace with new ones if needed.
- Test speaker functionality by connecting to another amplifier.

Distortion & Noise:

- Readjust input levels and verify speaker quality on another amplifier.
- Ensure common ground connections for amplifiers and head unit.
- Check RCA Jack for issues and replace if necessary.

FAQ

Q: How do I troubleshoot if the protection indicator lights up?

A: Turn down all levels, power off, and check for wiring mistakes or shorts. Allow the amplifier to cool down if shut down due to excessive heat.

Q: What should I do if there is no sound output?

A: Check connections, fuses, and test speakers with another amplifier.

Q: How can I reduce distortion and noise?

A: Readjust input levels, ensure proper grounding, and check RCA Jack for issues.

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XAP-7000.1D

XAP-8500.1D

High performance Amplifier



INTRODUCTION

Congratulations and thank you for purchasing XAP Audio amplifiers, the logical choice in mobile audio amplification. Your amplifiers have been designed and engineered with the highest quality components and top of the line workmanship to help you reach the superior sound you are after. To achieve optimal performance of your system, please take a few moments to read over this Owner's manual or visit authorized dealer if needed before starting your installation.

FEATURES

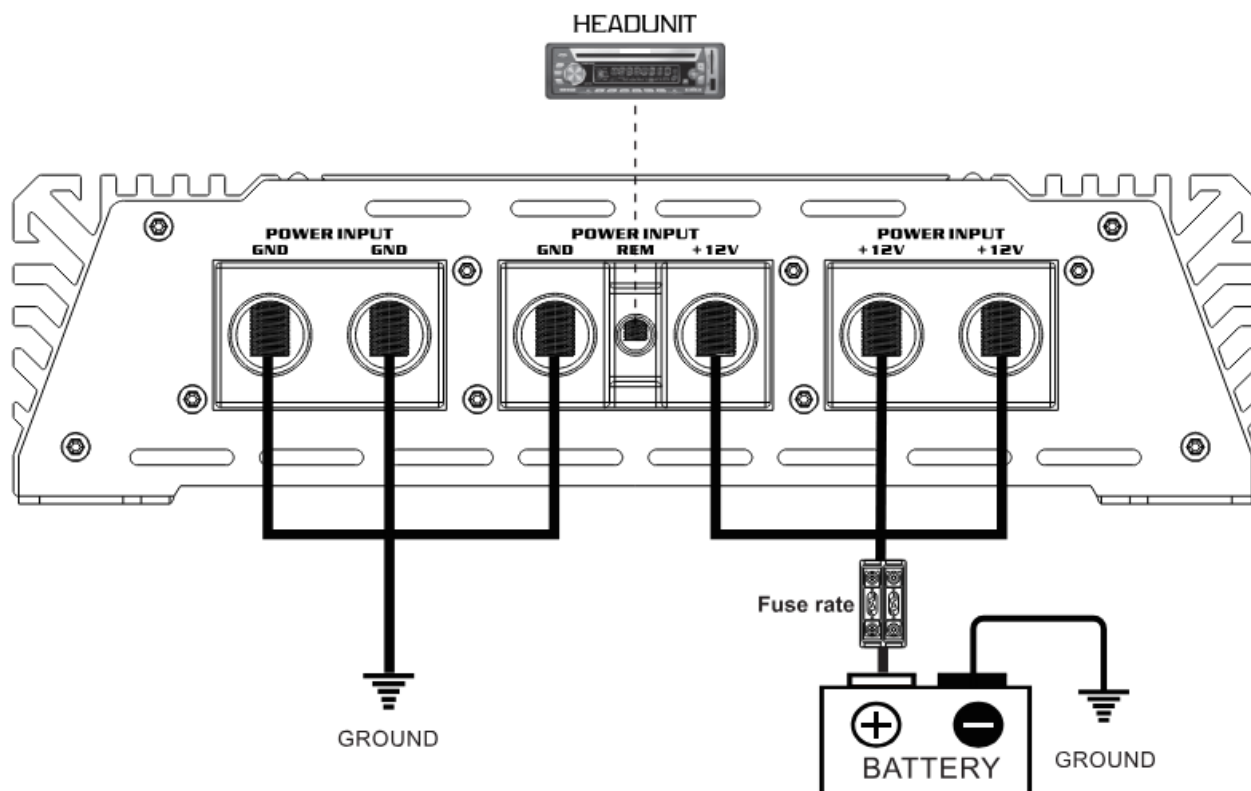
- Adopt high-efficiency toroidal transformer design
- Adopt high-efficiency class D design
- Multiple ways of protection(Overcurrent, thermal high/low voltage protection)
- Stable operation with 1 ohm load
- Frequency response: 10-250Hz
- FR4 double-sided PCB design
- With master/slave switching function
- With low-pass wire control function

FEATURES

| | | |
|--------------------------|--------------|--------------|
| Model | XAP-7000.1D | XAP-8500.1D |
| RMS power @ 4 ohm | 2200W x 1 | 2900W x 1 |
| RMS power @ 2 ohm | 4000W x 1 | 5000W x 1 |
| RMS power @ 1 ohm | 7000W X 1 | 8500W X 1 |
| RMS power @ 4 ohm Bridge | – | – |
| Amplifier Type | Class D | Class D |
| Minimum load impedance | 1 ohm stable | 1 ohm stable |
| Input Sensitivity | 0.2V – 6V | 0.2V – 6V |
| High Pass Filter | – | – |
| Low Pass Filter | 35Hz – 250Hz | 35Hz – 250Hz |
| Subsonic Filter | 10Hz – 50Hz | 10Hz – 50Hz |
| Frequency Response | 10Hz – 250Hz | 10Hz – 250Hz |
| Signal to Noise Ratio | ≥86dB | ≥86dB |
| THD @ 4ohm | ≤0.1% | ≤0.1% |
| Damping Factor | >200 | >200 |
| Working voltage | 9V – 16V | 9V – 16V |
| Dimensions (L inches) | 26.77 | 33.94 |
| 9.45 W X 2.44 H inches | | |

All features are subject to change in the continuing effort to improve the products without notice.

POWER CONNECTION



• BATT (12V POWER)

Before mounting amplifiers, disconnect the negative cable from the battery to protect any accidental damage to your amplifiers and audio system. Connect the power cables to power terminal 12V.

All XAP-series amplifiers are not equipped with fuses. External fuses should be used.

Connect one end of fuse holder to the power cable going into the amplifiers and the other end of fuse holder to positive battery. This fuse location will protect the system and the vehicle against the possibility of a short circuit in the power cable. Be sure to use a fuse and fuse holder adequate for the application.

• GND (GROUND)

Locate a secure grounding connection as close to the amplifier as possible. Make sure the location is clean and provides a direct electrical connection to the frame of the vehicle. The ground needs to have as low of a resistance as possible. Connect one end of a short piece of the same size cable as the power cable to the grounding point or to one of your batteries or battery bank. Run the other end of the cable to the mounting location of the amplifiers for connection to the amplifiers ground terminals and connect the ground cable to the GND (ground terminal).

• REM (REMOTE)

Run a remote turn on cable from the switched 12V source . This may be a toggle switch, a relay, your source unit's remote trigger cables, or power antenna trigger cable. Connect the remote turn on cable to the REM (remote) terminal.

TROUBLE SHOOTINGS

- XAP-serie amplifiers have protection features to prevent any damages from misuse or faulty conditions.
- If XAP-serie amplifiers sense excessive heat, short circuited speakers DC, or voltage the protection indicator will light, and the system will be turned off.
- In order to check the problem, you should turn all levels down and all power off and carefully check the installation for wiring mistakes or short.

- If XAP-series amplifiers shut down due to excessive heat, They will be working later when it is cooled down
- Before removing your amplifier, refer to the list below and follow the suggested procedures.

NO SOUND (NO OUTPUT)

- Please check all connections, cables' routing, short & voltage.
- Please check the fuses. If they are blown, please replace with new ones.
- Please check whether speakers work well, you can test speakers by connecting to another amplifier

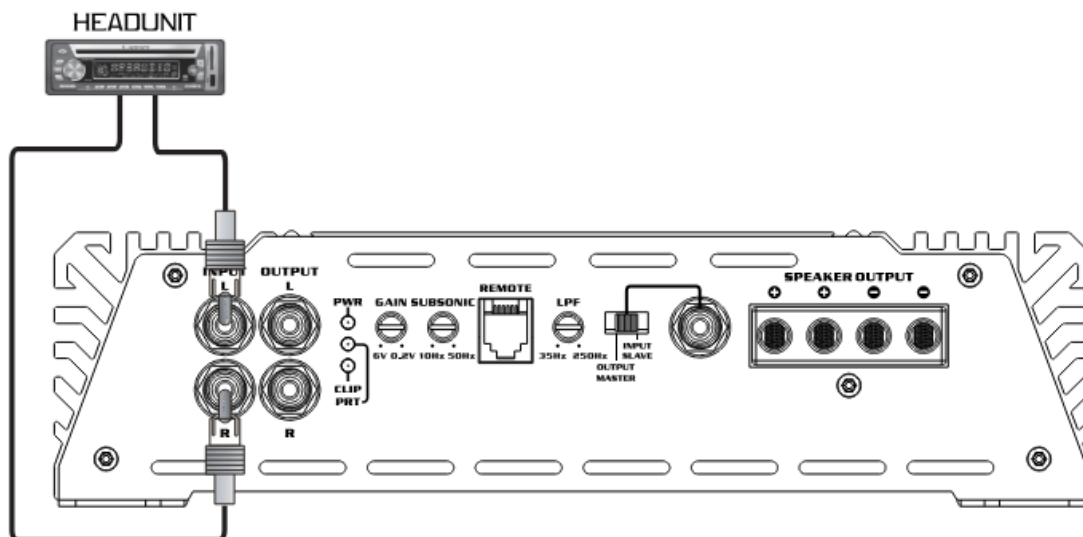
DISTORTION & NOISE

- Readjust input level and check the speaker quality at another amplifier. Replace poor quality speakers with good quality ones.
- Check amplifiers and headunit's ground contact. all grounds should be common.
- Check RCA Jack, then replace with new one or reroute RCA Jack.
- Engine noise is caused by poor grounding of amplifiers, headunit, other components, battery or alternator, so please check all grounding connections.

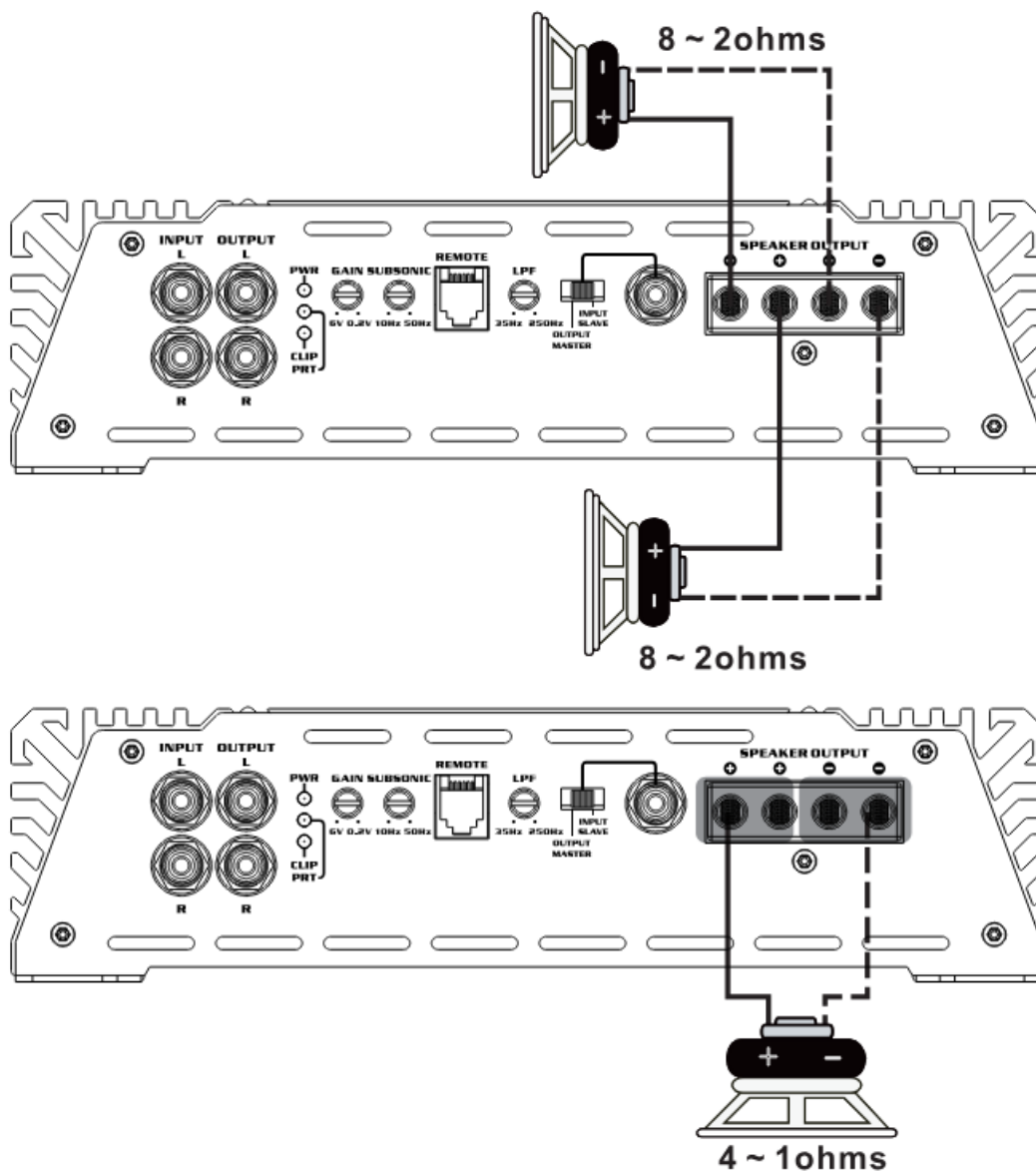
POOR BASS RESPONSE

Please check speaker cables and reverse polarity.

RCA INPUT CONFIGURATION



SPEAKER OUTPUT CONFIGURATION



STRAPPABLE CONNECTION

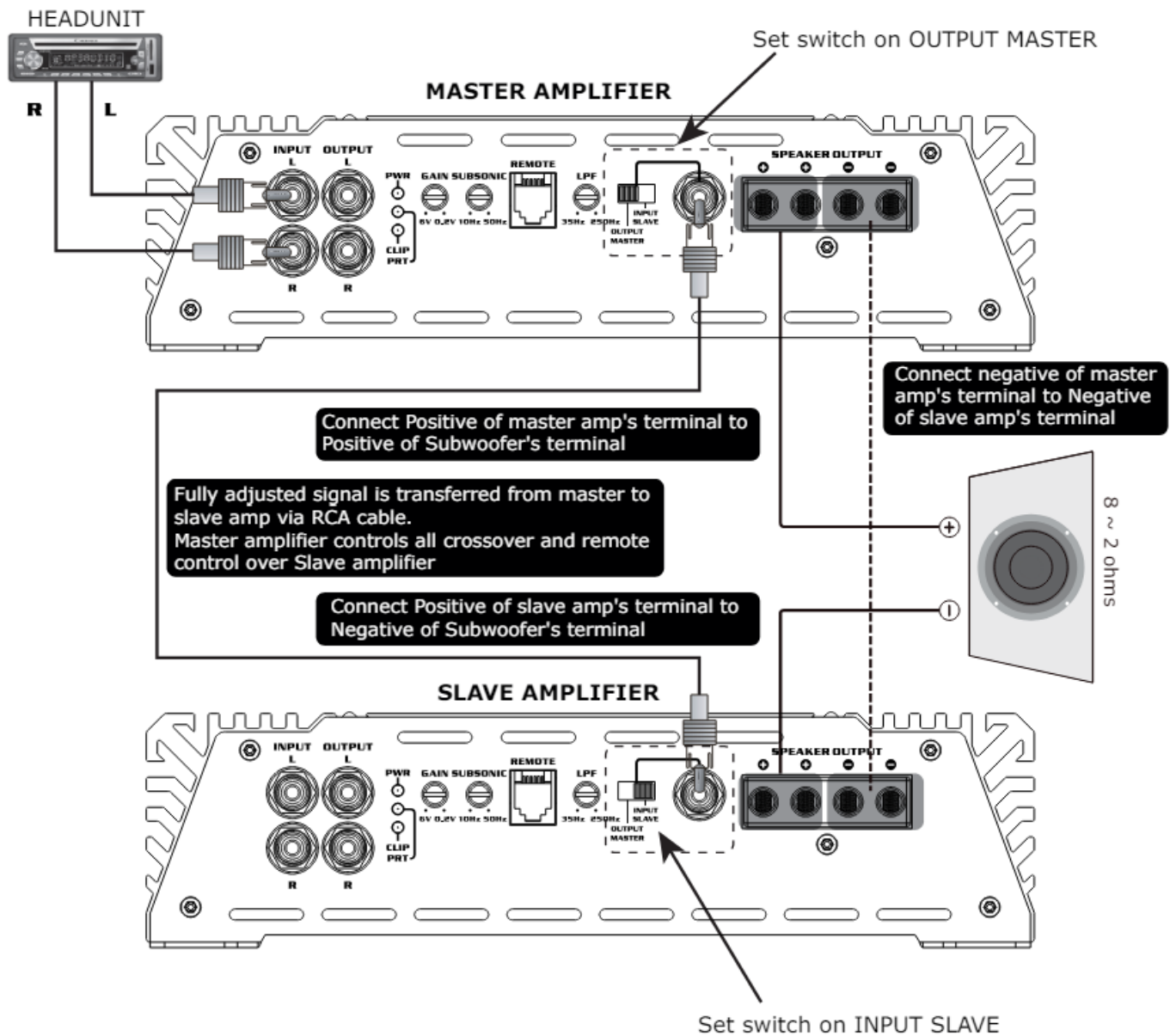
Strappable connection makes two of same amplifiers strapped to 2 ohm.
 Strappable connection makes the power double than their 1 ohm power.
 Please read the Following connection and diagram carefully to make correct connection.

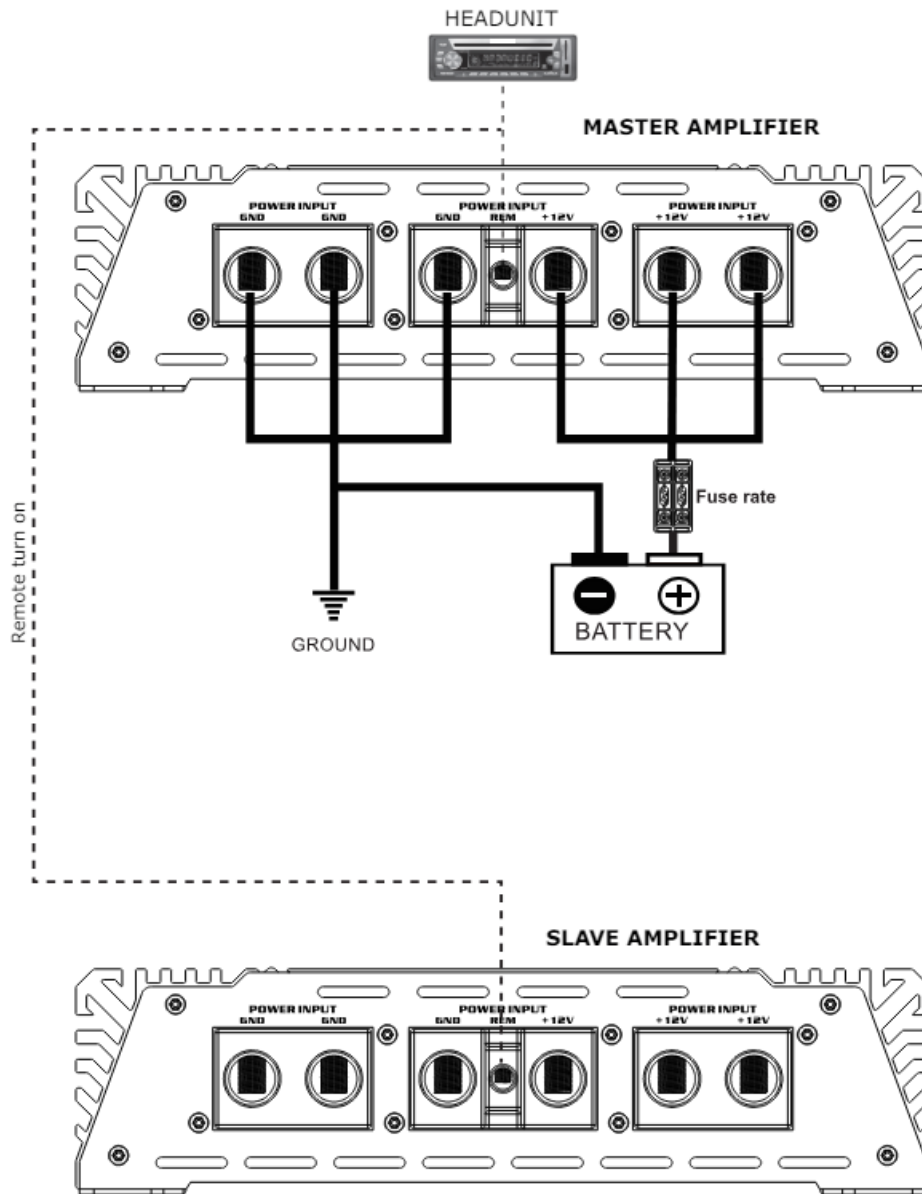
INPUT CONNECTION ;

- Step 1. Connect the Master amplifier to the head-unit and set its output master / input slave switch to output master.
- Step 2. Set Slave amplifier output master / input slave switch to slave input.
- Step 3. Connect RCA cable from the master to slave amplifier as shown in the diagram.

POWER & SPEAKER CONNECTION ;

- Step 1. Connect speaker cable [+] on master amplifier to subwoofer [+]
- Step 2. Connect speaker cable [+] on slave amplifier to subwoofer [-]
- Step 3. Connect speaker cable [-] on master amplifier to speaker cable [-] on slave amplifier





CAUTION!!


In strappble connection,

Minimum working impedance is 2 ohm.

Impedance lower than 2 ohm can damage the amplifiers.

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|  | <p>FOR-X XAP-7000.1D High Performance Amplifier [pdf] Owner's Manual XAP-7000.1D, XAP-7000.1D High Performance Amplifier, High Performance Amplifier, Performance Amplifier, Amplifier</p> |
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References

- [User Manual](#)

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