

# FOR-X

## OWNER'S MANUAL

*XDQ-80.4D*

*XDQ-125.4D*

*XDQ-225.4D*

*XDQ-300.4D*

*XDQ-1000.5D*

*XDQ-400.2D*

*XDQ-1000.1FD*

*XDQ-500.1D*

*XDQ-1200.1D*



# FEATURES

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## **XDQ-80.4D / XDQ-125.4D**

## **XDQ-225.4D / XDQ-300.4D**

- 4 Channel high power class D amplifier
- MOSFET power supply
- 4 Ohm bridge mode or 2 Ohm stereo
- Adjustable HIGH-pass filter: 20Hz-300Hz
- Adjustable LOW-pass filter: 50Hz-300Hz
- High level input sensitivity: variable 0.7~7.0V
- Low level input sensitivity: variable 0.35~3.5V
- Protection circuit: overload, overheating, short circuit, undervoltage and overvoltage protection.

## **XDQ-1000.5D**

- 5 Channel high power class D amplifier
- MOSFET power supply
- 4 Ohm bridge mode or 2 Ohm stereo; SUB channel 2 Ohm stable
- Adjustable HIGH-pass filter: 20Hz-200Hz [Group A and Group B]
- Adjustable LOW-pass filter: 50Hz-200Hz [SUB]
- Adjustable Subsonic filter: 20Hz-50Hz [SUB]
- High level input sensitivity: variable 0.7~7.0V
- Low level input sensitivity: variable 0.35~3.5V
- Protection circuit: overload, overheating, short circuit, undervoltage and overvoltage protection.

## **XDQ-400.2D**

- 2 Channel high power class D amplifier
- MOSFET power supply
- 4 Ohm bridge mode or 2 Ohm stereo
- Adjustable HIGH-pass filter: 20Hz-300Hz
- Adjustable LOW-pass / Band-pass filter: 20Hz-300Hz
- Bass boost level adjustable: 0~12dB Wired remote gain control
- High level input sensitivity: variable 0.7~7.0V
- Low level input sensitivity: variable 0.35~3.5V
- Protection circuit: overload, overheating, short circuit, undervoltage and overvoltage protection.

# FEATURES

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## **XDQ-1000.1FD**

- Mono high power full range class D amplifier
- MOSFET power supply
- Mono 2 Ohm operation
- Adjustable HIGH-pass filter: 20Hz-300Hz
- Adjustable HIGH-pass filter: 20Hz-300Hz
- Adjustable LOW-pass / Band-pass filter: 20Hz-300Hz
- Bass boost level adjustable: 0~12dB
- Wired remote gain control
- High level input sensitivity: variable 0.7~7.0V
- Low level input sensitivity: variable 0.35~3.5V
- Protection circuit: overload, overheating, short circuit, undervoltage and overvoltage protection.

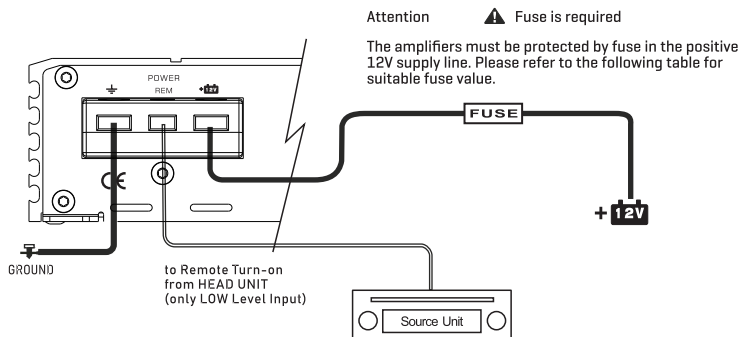
## **XDQ-500.1D**

- Mono high power class D subwoofer amplifier
- MOSFET power supply
- Mono 2 Ohm operation
- Adjustable LOW-pass filter: 40Hz-220Hz
- Adjustable Subsonic filter: 20Hz-50Hz
- Bass boost level adjustable: 0-6-12dB
- Wired remote gain control
- High level input sensitivity: variable 0.7-7.0V
- Low level input sensitivity: variable 0.35-3.5V
- Protection circuit: overload, overheating, short circuit, undervoltage and overvoltage protection.

## **XDQ-1200.1D**

- Mono high power class D subwoofer amplifier
- MOSFET power supply
- Mono 1 Ohm operation
- Adjustable LOW-pass filter: 40Hz-220Hz
- Adjustable Subsonic filter: 20Hz-50Hz
- Bass boost level adjustable: 0-6-12 dB
- Wired remote gain control
- High level input sensitivity: variable 0.7~7.0V
- Low level input sensitivity: variable 0.35~3.5V
- Protection circuit: overload, overheating, short circuit, undervoltage and overvoltage protection.

# POWER CONNECTION



## Recommended external fuse value

Model	XDQ-80.4D	XDQ-125.4D	XDQ-225.4D	XDQ-300.4D	XDQ-1000.5D	XDQ-400.2D	XDQ-1000.1FD	XDQ-500.1D	XDQ-1200.1D
Cable	6-8AWG	6-8AWG	2-4AWG	2-4AWG	6-8AWG	6-8AWG	6-8AWG	6-8AWG	2-4AWG
Fuse	60A	60A	100A	180A	100A	100A	80A	60A	100A

### 1. Battery disconnection

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

### 2. Ground connection

Connect the GND [ground] connection of the amplifier with the car chassis. Keep this cable as short as possible 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. +12V Power connection

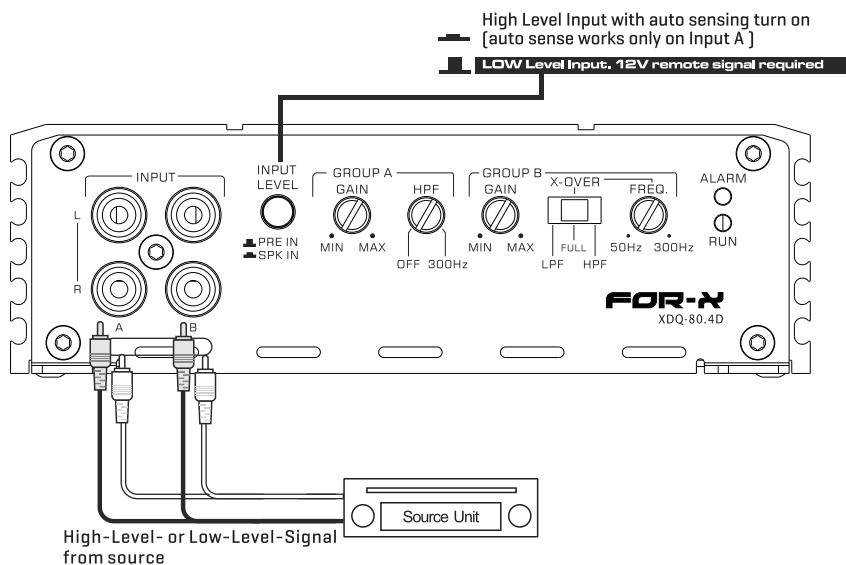
Connect the +12V contact of the amplifier with the supply cable via a fuse directly to the vehicle battery. Keep in mind, that the lenght of the cable from fuseholder to vehicle battery has to be maximum 30cm

### 4. Remote connection

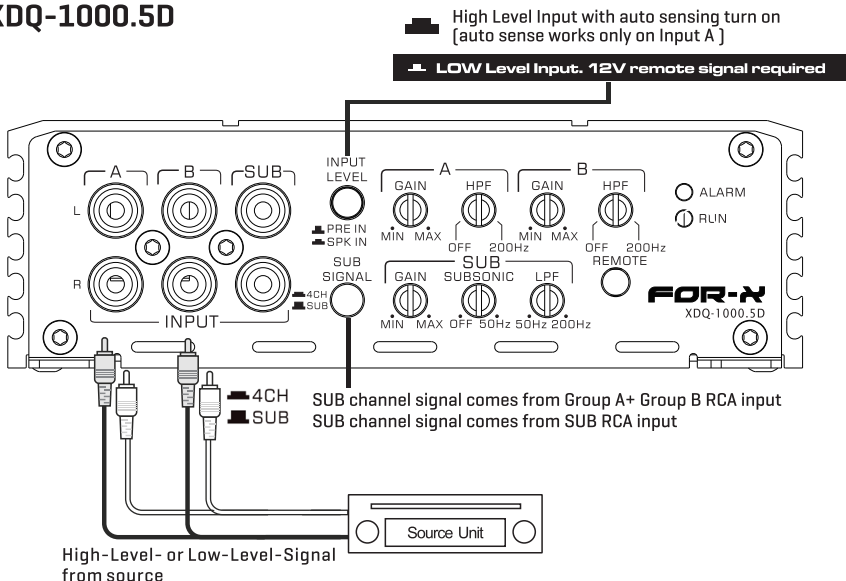
Connect the REM-terminal of the amplifier to the remote-output [automatic 12 antenna-output] of the head unit. Use a 0.5 - 1.5 mm power cable.

# RCA CONNECTION

**XDQ-80.4D / XDQ-125.4D**  
**XDQ-225.4D / XDQ-300.4D**



**XDQ-1000.5D**

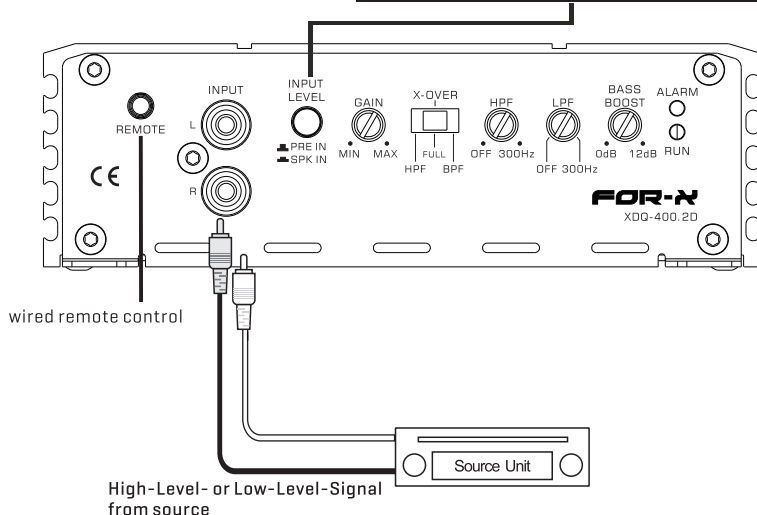


# RCA CONNECTION

## XDQ-400.2D

 High Level Input with auto sensing turn on

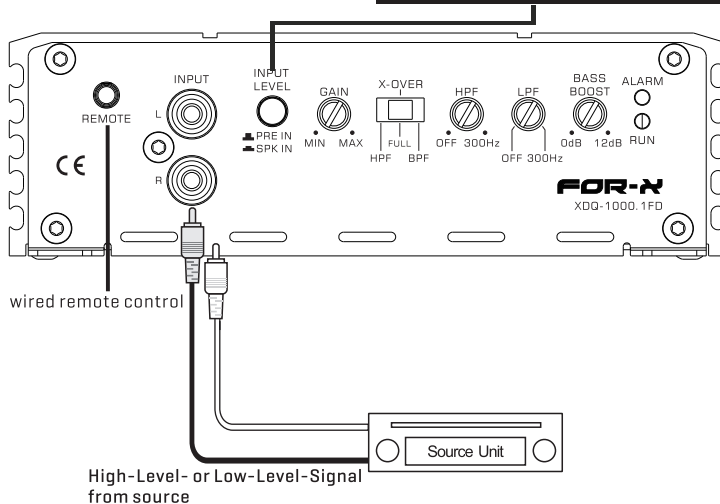
 LOW Level Input. 12V remote signal required



## XDQ-1000.1FD

 High Level Input with auto sensing turn on

 LOW Level Input. 12V remote signal required

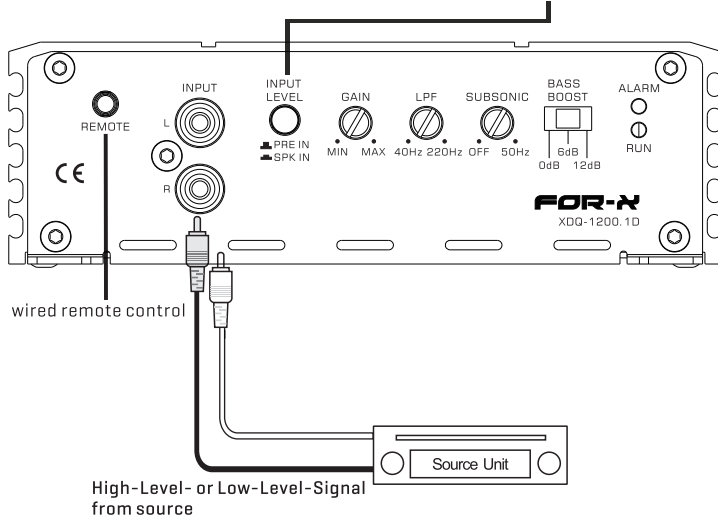


# RCA CONNECTION

## XDQ-500.1D / XDQ-1200.1D

 High Level Input with auto sensing turn on

 LOW Level Input. 12V remote signal required

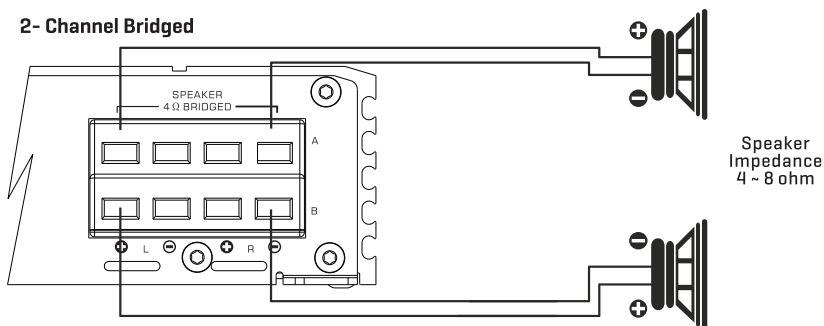




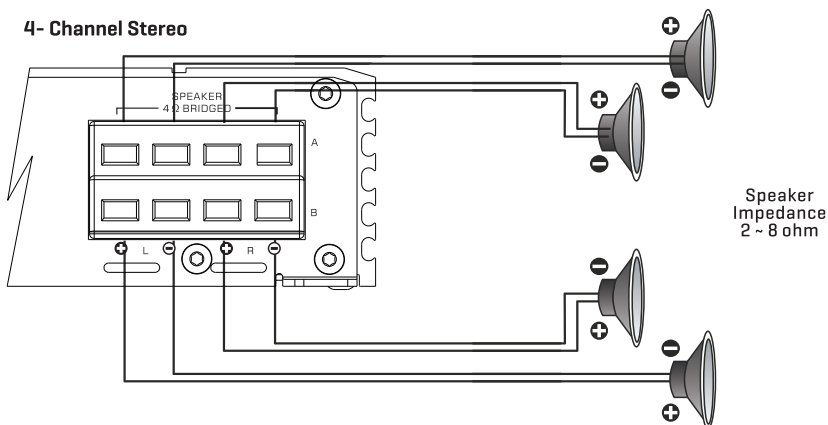
# SPEAKER CONNECTION

**XDQ-80.4D / XDQ-125.4D**  
**XDQ-225.4D / XDQ-300.4D**

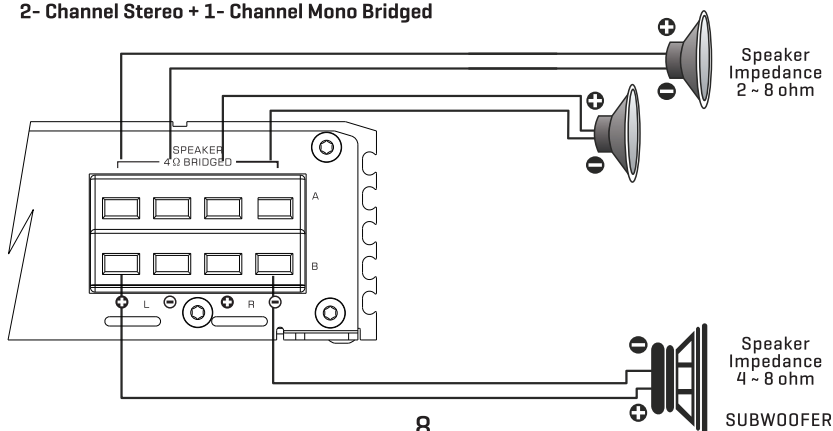
## 2- Channel Bridged



## 4- Channel Stereo

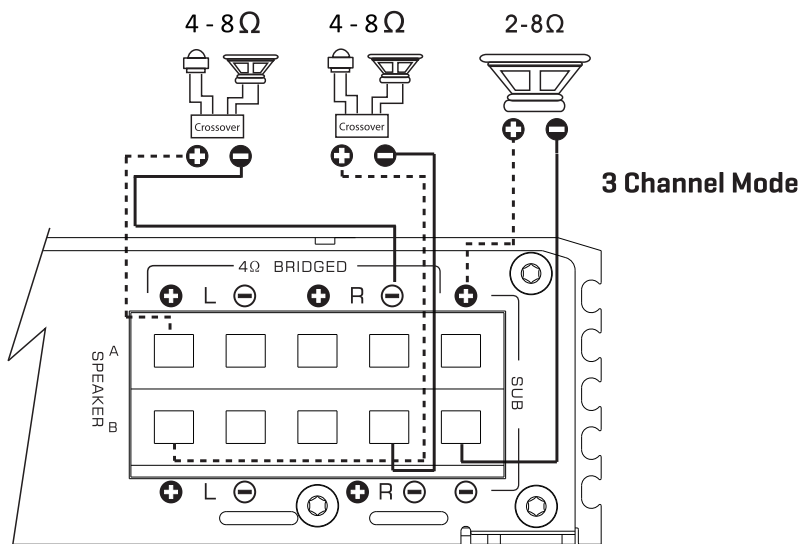
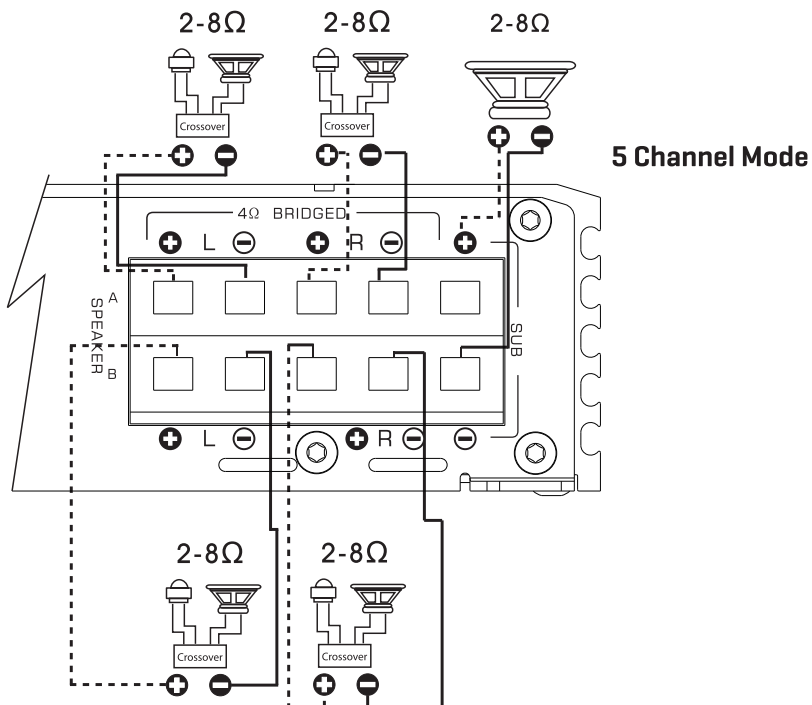


## 2- Channel Stereo + 1- Channel Mono Bridged



# SPEAKER CONNECTION

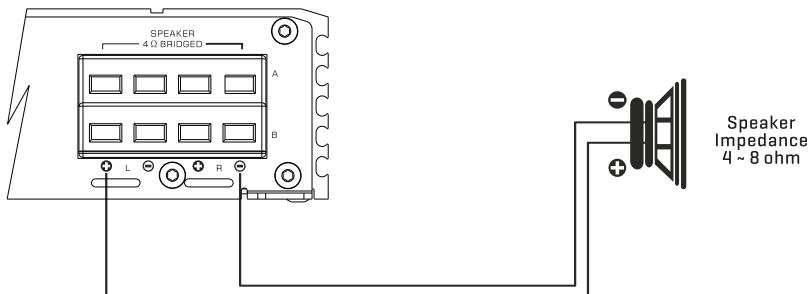
## XDQ-1000.5D



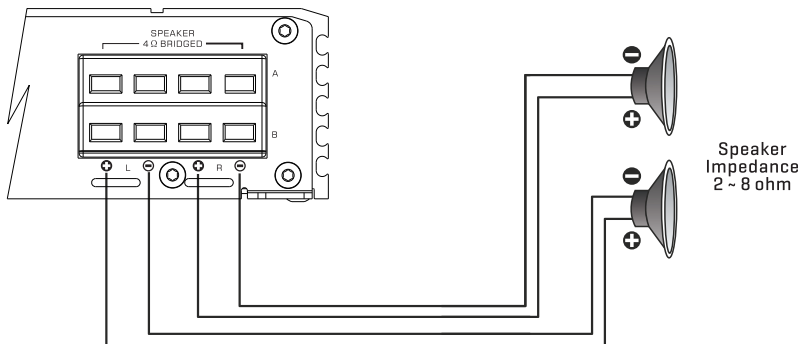
# SPEAKER CONNECTION

## XDQ-400.2D

### 1- Channel Bridged



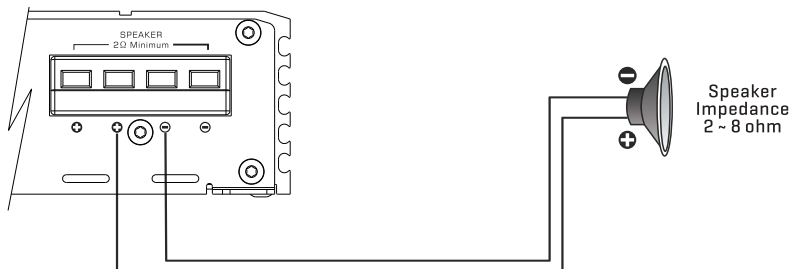
### 2- Channel Stereo



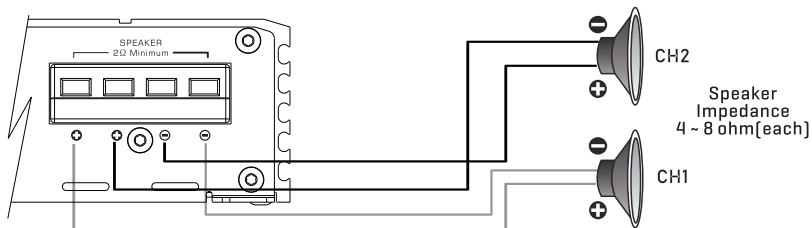
# SPEAKER CONNECTION

## XDQ-1000.1FD / XDQ-500.1D

### Single Speaker



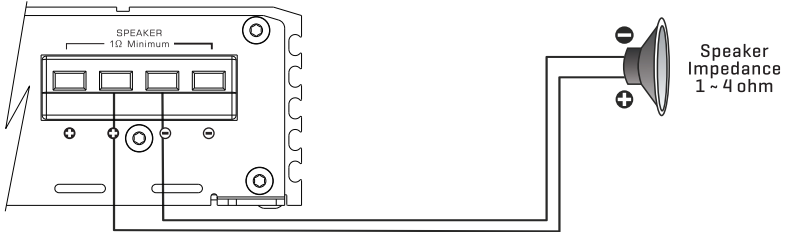
### Dual Speaker



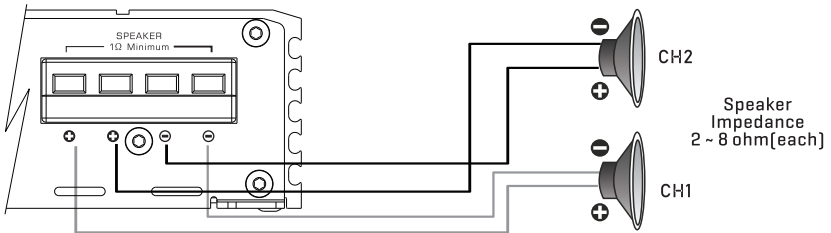
# SPEAKER CONNECTION

## XDQ-1200.1D

### Single Subwoofer



### Dual Speaker



# SPECIFICATIONS

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## **XDQ-80.4D**

RMS power, 4 Ohm Stereo: 80W x 4  
RMS power, 2 Ohm Stereo: 130W x 4  
RMS power, 4 Ohm bridged: 260W x 2  
Signal to noise ratio: >95dB  
THD+N @ Rated power: <0.2%  
Frequency Response range: 20Hz~30KHz[-3dB]  
Dimension: 165 x 151 x 47mm

## **XDQ-225.4D**

RMS power, 4 Ohm Stereo: 225W x 4  
RMS power, 2 Ohm Stereo: 300W x 4  
RMS power, 4 Ohm bridged: 600W x 2  
Signal to noise ratio: >91dB  
THD+N @ Rated power: <0.2%  
Frequency Response range: 20Hz~30KHz[-3dB]  
Dimension: 186 x 151 x 47mm

## **XDQ-1000.5D**

RMS power, 4 Ohm Stereo: 100W x 4 + 250W  
RMS power, 2 Ohm Stereo: 150W x 4 + 400W  
RMS power, 4 Ohm bridged: 300W x 2  
Signal to noise ratio: >93dB  
THD+N @ Rated power: <0.2%  
Frequency Response range: 20Hz~30KHz[-3dB]  
Dimension: 256 x 151 x 47mm

## **XDQ-1000.1FD**

RMS power, 4 Ohm: 665W  
RMS power, 2 Ohm: 1000W  
Signal to noise ratio: >96dB  
THD+N @ Rated power: <0.2%  
Frequency Response range: 20Hz~20KHz[-3dB]  
Dimension: 186 x 151 x 47mm

## **XDQ-1200.1D**

RMS power, 4 Ohm: 480W  
RMS power, 2 Ohm: 745W  
RMS power, 1 Ohm: 1120W  
Signal to noise ratio: >98dB  
THD+N @ Rated power: <0.3%  
Frequency Response range: 10~220Hz[-3dB]  
Dimension: 256 x 151 x 47mm

## **XDQ-125.4D**

RMS power, 4 Ohm Stereo: 125W x 4  
RMS power, 2 Ohm Stereo: 180W x 4  
RMS power, 4 Ohm bridged: 360W x 2  
Signal to noise ratio: >93dB  
THD+N @ Rated power: <0.2%  
Frequency Response range: 20Hz~30KHz[-3dB]  
Dimension: 165 x 151 x 47mm

## **XDQ-300.4D**

RMS power, 4 Ohm Stereo: 300W x 4  
RMS power, 2 Ohm Stereo: 400W x 4  
RMS power, 4 Ohm bridged: 800W x 2  
Signal to noise ratio: >93dB  
THD+N @ Rated power: <0.2%  
Frequency Response range: 20Hz~30KHz[-3dB]  
Dimension: 256 x 151 x 47mm

## **XDQ-400.2D**

RMS power, 4 Ohm Stereo: 400W x 2  
RMS power, 2 Ohm Stereo: 600W x 2  
RMS power, 4 Ohm bridged: 1200W x 1  
Signal to noise ratio: >95dB  
THD+N @ Rated power: <0.1%  
Frequency Response range: 20Hz~30KHz[-3dB]  
Dimension: 186 x 151 x 47mm

## **XDQ-500.1D**

RMS power, 4ohm: 380W  
RMS power, 2ohm: 550W  
Signal to noise ratio: >98dB  
THD+N @ Rated power: <0.3%  
Frequency Response range: 10~220Hz [-3dB]  
Dimension: 165 x 151 x 47mm

# TROUBLESHOOTING

Symptom	Possible Solution
<b>Amplifier will not power up</b>	Check to make sure you have a good ground connection. Check that there is battery power on the [ + ] terminal. Check all fuses, replace if necessary. Make sure that the Protection LED is not illuminated.
<b>Protection LED Comes on</b>	Check for short circuits on speaker leads. Check the speaker load not beyond the minimum load. Remove speaker lead, and reset the amplifier. If the protection LED still Comes on, then the amplifier is faulty and needs servicing.
<b>No output</b>	Check that the RCA audio cables are plugged into the proper inputs. Check all speakers wiring. Check the headunit output and the amplifier level setting.
<b>Low output</b>	Reset the level Control. Check the Crossover Control settings.
<b>High hiss in The speakers</b>	Check the RCA cable is not shorted to power ground at amplifier side. Check the amplifier grounding.
<b>Distorted sound</b>	Check that the Input level control is set to match the signal level of the head unit. Always try to set the Input level as low as possible. Check that all crossover frequencies are properly set. Check for short circuits on the speaker leads.
<b>Amplifier gets Very hot</b>	Check that the minimum load impedance for the amplifier model is correct. Check that there is good air circulation around the amplifier. In some applications it may be necessary to add an external cooling fan.

If your amplifier is still malfunction after checking through the troubleshooting section, please contact our authorized dealer.

**FOR-X**