

FDR-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-1200.1D

FEATURES

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: 0~12dBWired 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

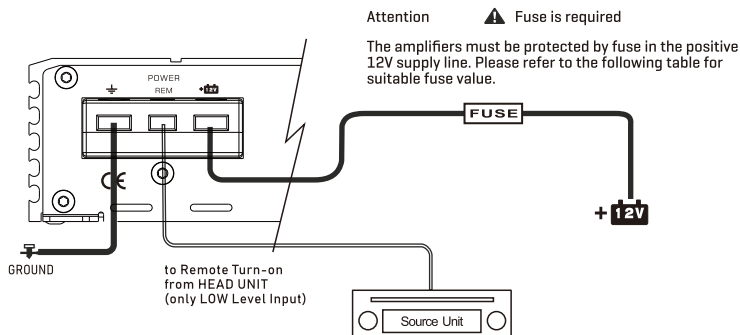
XDQ-1000.1FD

- 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-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



Select cable and fuse according to the following table

Model	XDQ-80.4D	XDQ-125.4D	XDQ-225.4D	XDQ-300.4D	XDQ-1000.5D	XDQ-400.2D	XDQ-1000.1FD	XDQ-1200.1D
Cable	6-8AWG	6-8AWG	6-8AWG	2-4AWG	2-4AWG	6-8AWG	6-8AWG	2-4AWG
Fuse	60A	60A	100A	180A	100A	100A	80A	120A

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

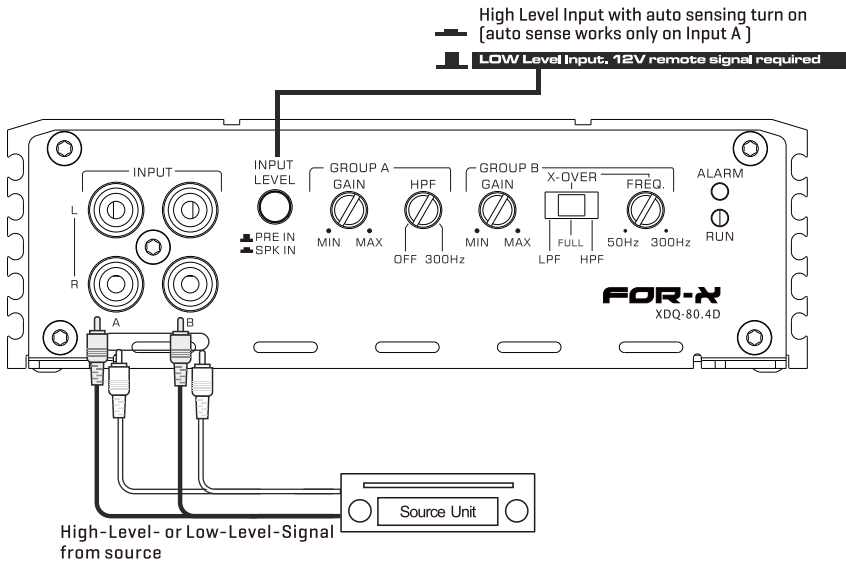
Connect the +12V contact of the amplifier with the supply cable via a fuse directly to the vehicle battery. Keep in mind, that the length of the cable from fuseholder to vehicle battery has to be maximum 30cm

4. Remote connection

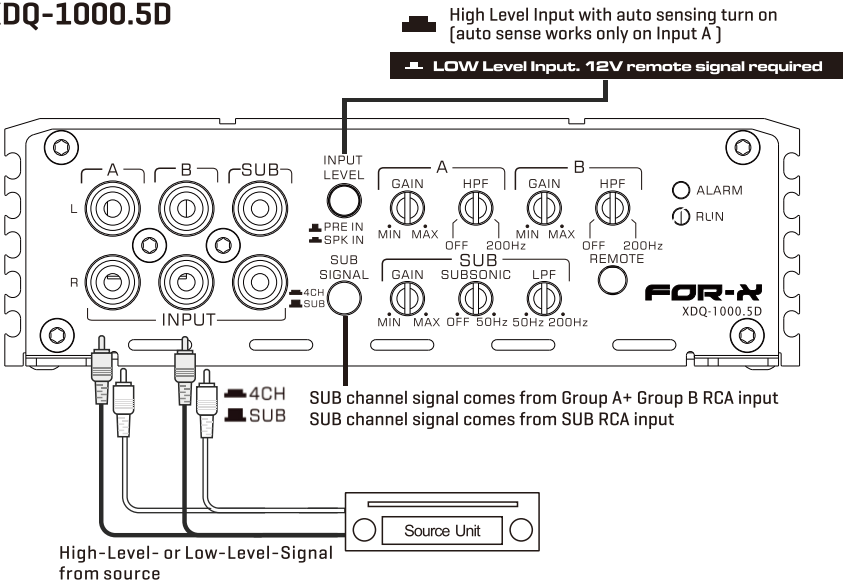
Connect the REM-terminal of the amplifier to the remote-output [automatic 12 antenna-output] of the head unit. Use a 0.5 - 1.5 mm power cable.

RCA CONNECTION

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



XDQ-1000.5D

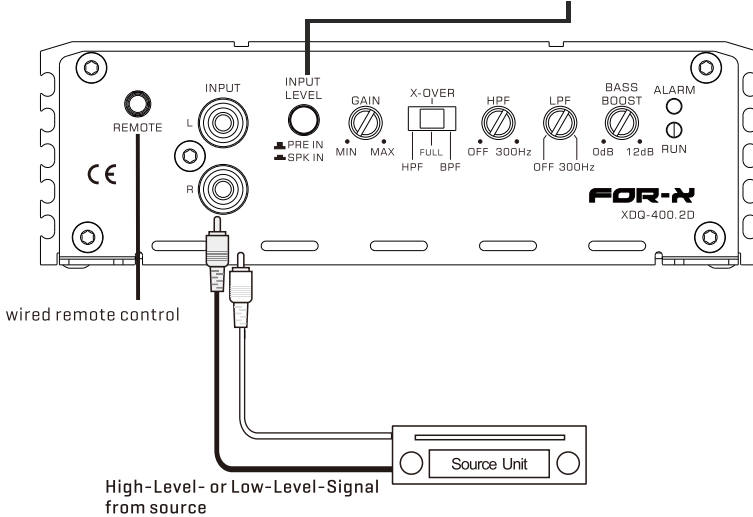


RCA CONNECTION

XDQ-400.2D

 High Level Input with auto sensing turn on

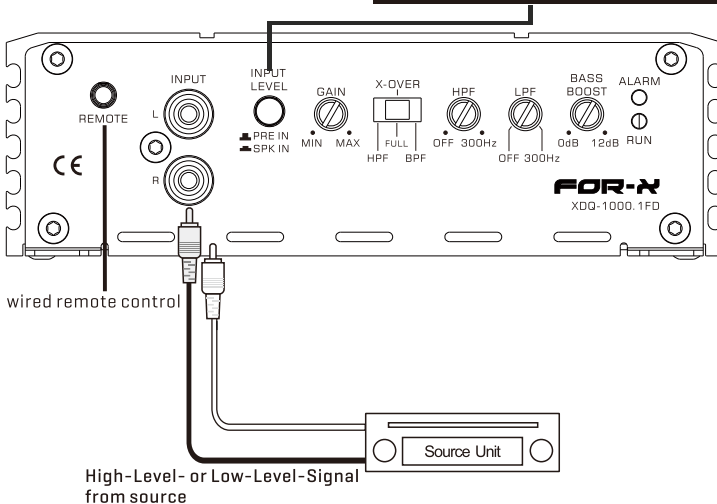
 LOW Level Input. 12V remote signal required



XDQ-1000.1FD

 High Level Input with auto sensing turn on

 LOW Level Input. 12V remote signal required

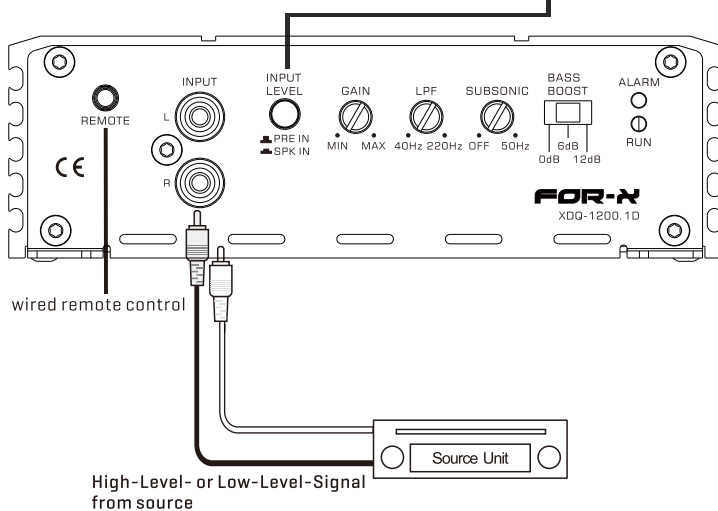


RCA CONNECTION

XDQ-1200.1D

 High Level Input with auto sensing turn on

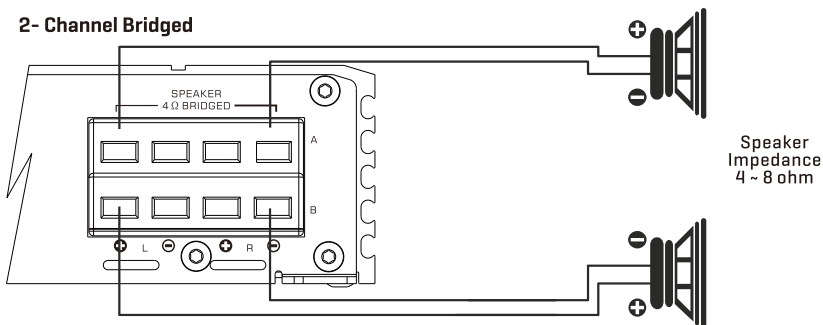
 LOW Level Input. 12V remote signal required



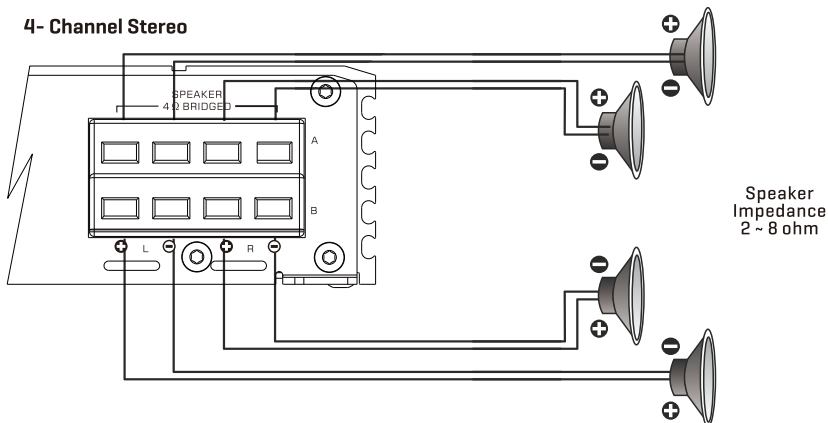
SPEAKER CONNECTION

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

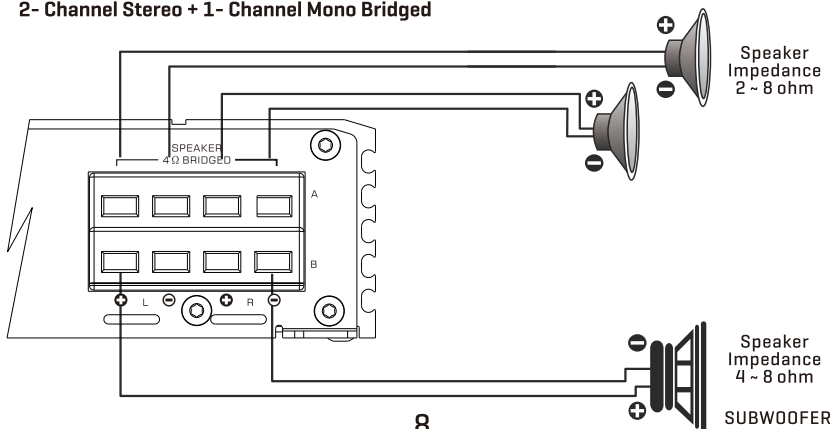
2- Channel Bridged



4- Channel Stereo

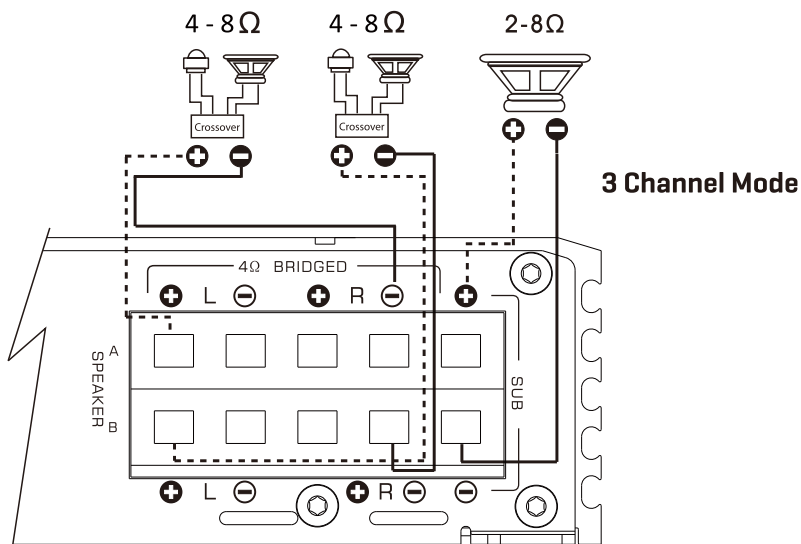
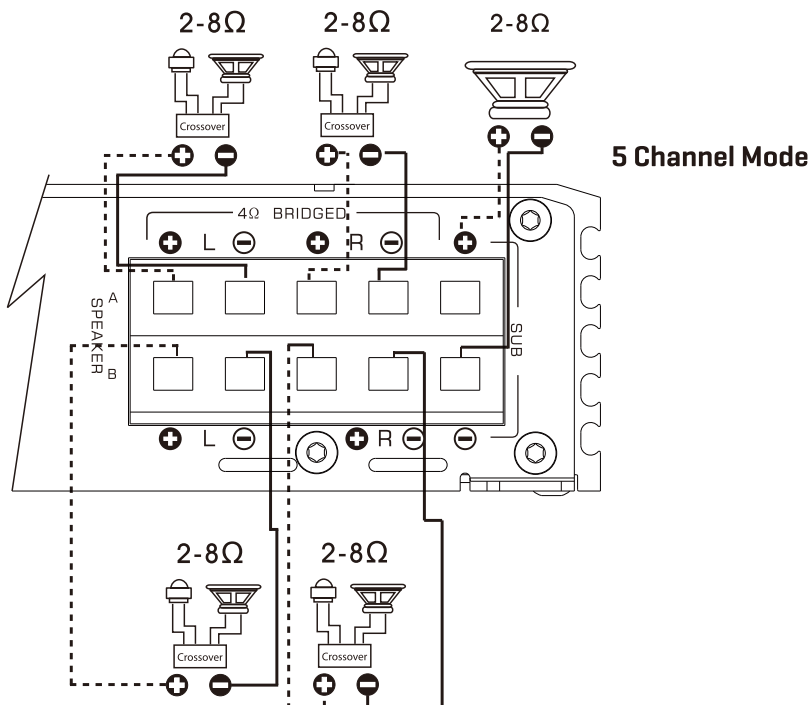


2- Channel Stereo + 1- Channel Mono Bridged



SPEAKER CONNECTION

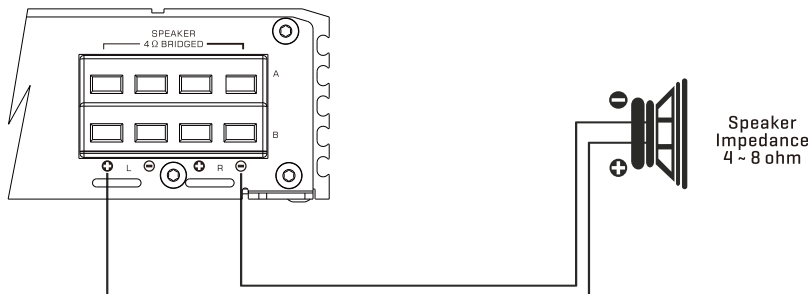
XDQ-1000.5D



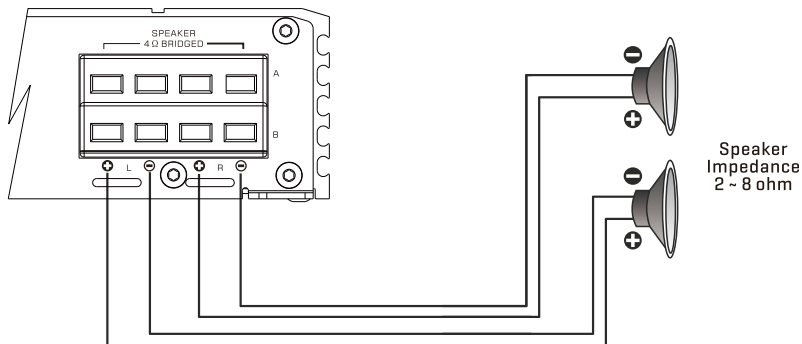
SPEAKER CONNECTION

XDQ-400.2D

1- Channel Bridged



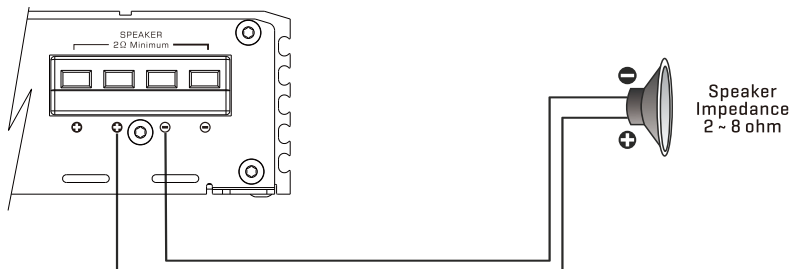
2- Channel Stereo



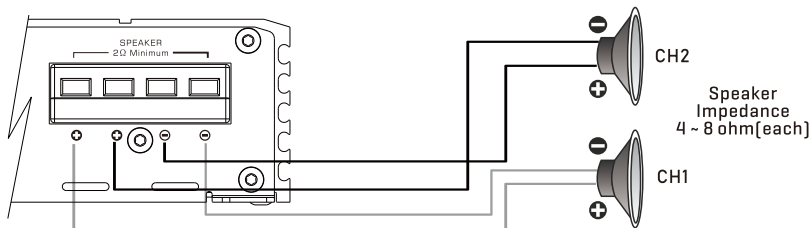
SPEAKER CONNECTION

XDQ-1000.1FD

Single Speaker



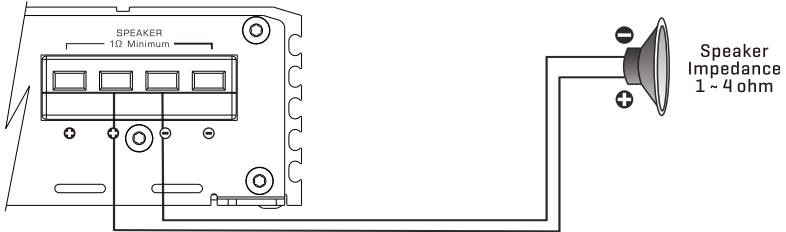
Dual Speaker



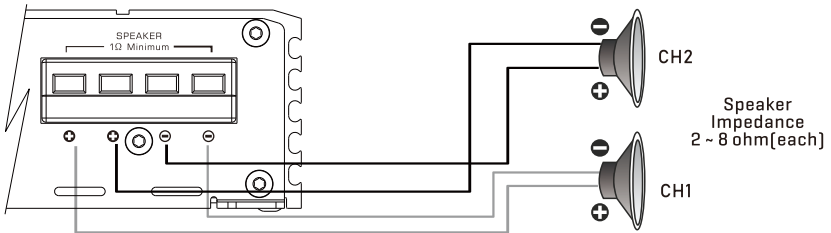
SPEAKER CONNECTION

XDQ-1200.1D

Single Subwoofer



Dual Speaker



SPECIFICATIONS

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-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-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

TROUBLESHOOTING

Symptom	Possible Solution
Amplifier will not power up	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.
Protection LED Comes on	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.
No output	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.
Low output	Reset the level Control. Check the Crossover Control settings.
High hiss in The speakers	Check the RCA cable is not shorted to power ground at amplifier side. Check the amplifier grounding.
Distorted sound	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.
Amplifier gets Very hot	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