

C3 SERIES
PRODUCT MANUAL



C3-500D | C3-604

ELECTRICAL CONNECTION

+12V

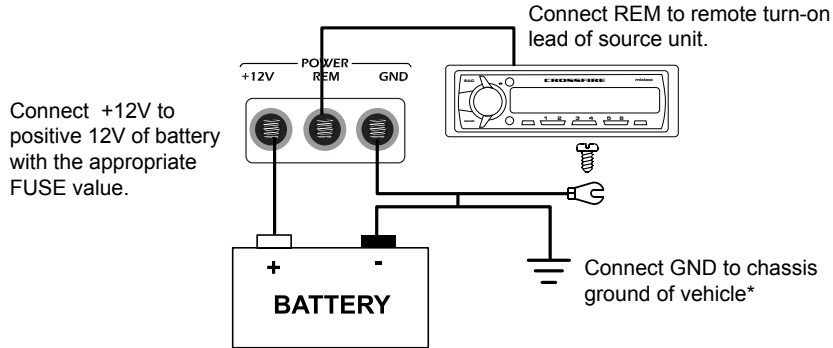
Connect the +12 volt terminal of the amplifier to the positive +12 volt terminal of the car battery.

REM

Terminal to be Connected with Remote cable, which comes from the source and which controls the amplifier switching on. Applied voltage must be between 10V - 15V DC.

GND

Ground Terminal. Connect to the car chassis. Keep the length of the ground cable to a minimum.

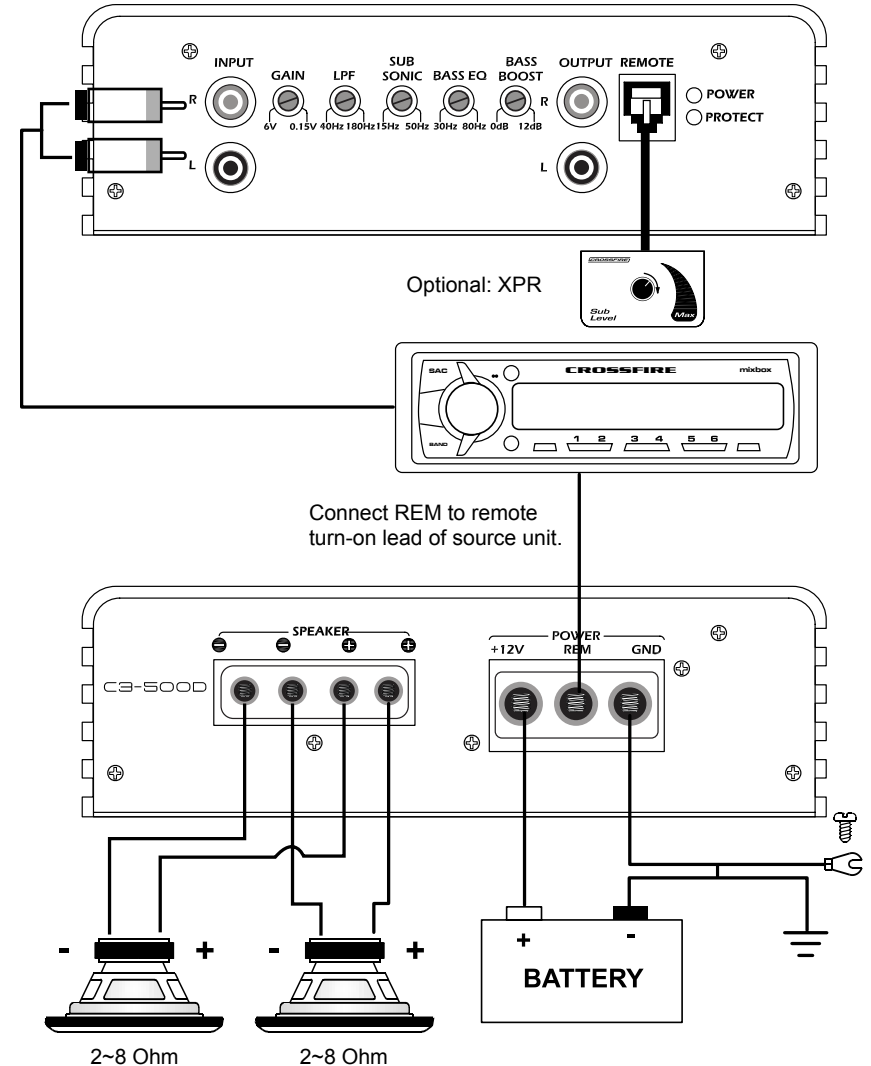


SPECIFICATIONS

RMS Power @ 12.5 VDC	C3-500D	C3-804
Power @ 4 Ohms	180W X1	60W X4
Power @ 2 Ohms	300W X1	80W X4
Power @ 1 Ohms	500W X1	N/A
Bridged Power @ 4 Ohms	N/A	160W X2
Min. Speaker Impedance	1 Ohm	2 Ohm Stereo
THD Distortion	0.10%	0.05%
Frequency Response	10Hz - 350Hz	10Hz - 30KHz
Input Sensitivity	0.15V - 6V	0.15V - 6V
Signal-to-Noise Ratio	>85dB	>90dB
4-Way Protection Circuit	DC Offset, Thermal, Low / Over Voltage	DC Offset, Thermal, Low / Over Voltage
Crossover Network		
Low Pass Filter	40Hz - 180Hz	50Hz - 500Hz
Bass Boost	0dB - 12dB	0dB - 12dB
High Pass Filter	N/A	50Hz - 5KHz
Ruse Rating	40A X1 (External)	40A X1 (Internal)
Heat Sink Size L X W X H	8.2" X 6.6" X 2"	11.5" X 6.6" X 2"

SYSTEM WIRING 1 CH. MONO MODE CONFIG.

C3-500D

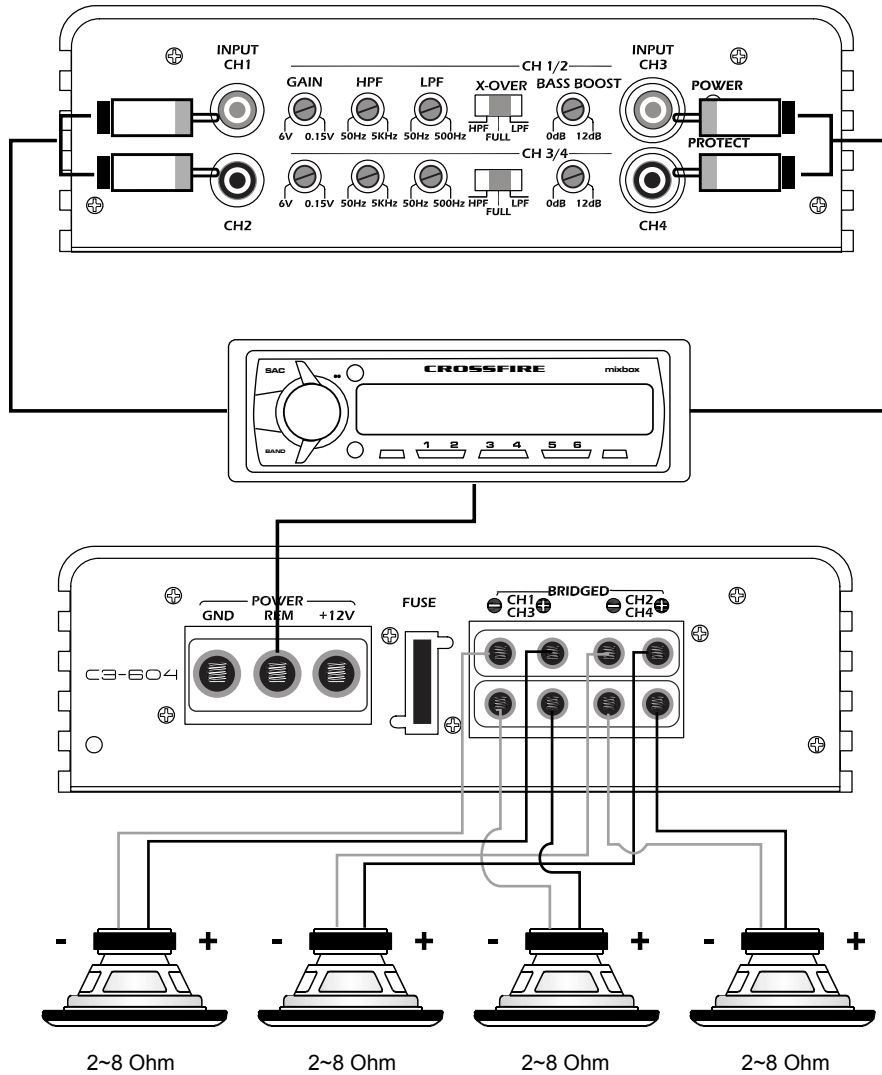


CAUTION!
C3-500D minimum working impedance is 1 Ohm.

The C3-500D is not equipped with an internal fuse in itself. Make sure you install in-line fuse holder from the Positive (+) terminal of battery.

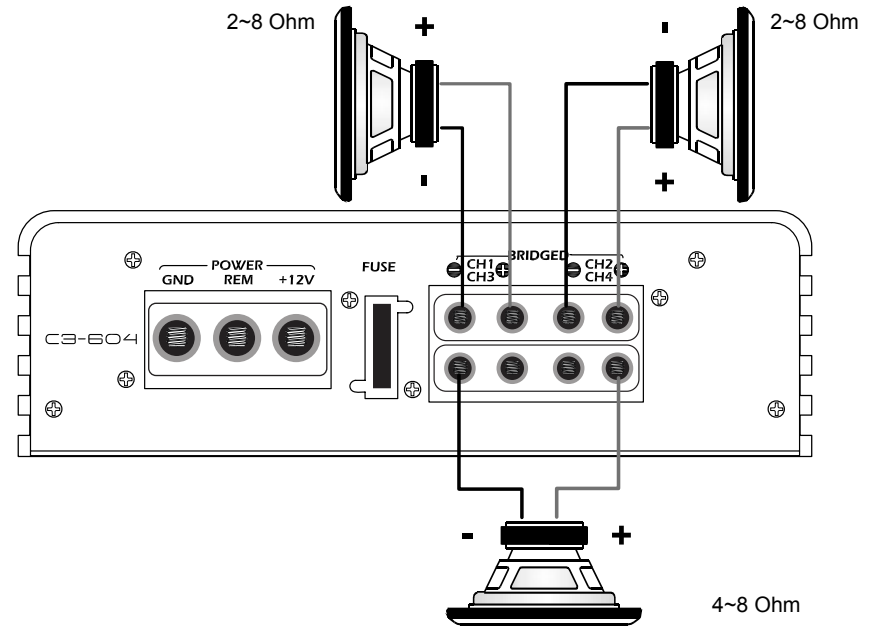
**SYSTEM WIRING 4 CH.
STEREO CONFIGURATION**

C3-604

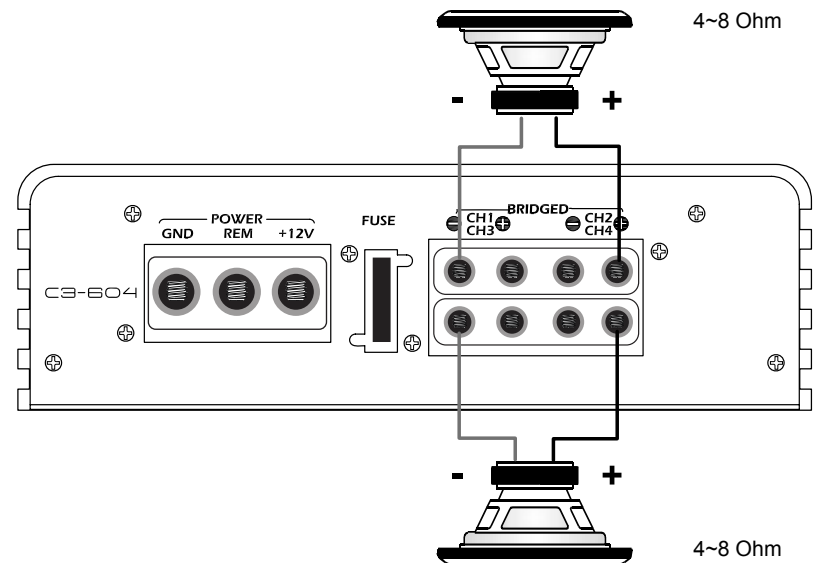


C3-604 minimum working impedance is 2 Ohm Stereo each Ch. or 4 Ohm Bridged Mono.

**SYSTEM WIRING 3 CH.
STEREO CONFIGURATION**



**SYSTEM WIRING DUAL BRIDGED
MONO CONFIGURATION**



Before removing your amplifier, refer to the list below and follow the suggested procedures. Always test the speakers and their wires first.

AMPLIFIER WILL NOT POWER UP.

Check for good ground connection.
Check that remote DC terminal has at least 10V DC.
Check that there is battery power on the + terminal.
Check all FUSES.
Check that the protection LED is not lit. If it is lit, shut off amplifier briefly and then re-power it.

HIGH HISS OR ENGINE NOISE (ALTERNATOR WHINE) IN SPEAKERS.

Disconnect all RCA inputs to the amplifier, if hiss/noise disappears, then plug in a component driving the amplifier and un-plug it's inputs. If hiss/ noise disappears, go on until the faulty / noisy component is found. It is best to set the amplifier input level as insensitive as possible. The best subjective S/N ratio is obtainable this way. Try to drive as high a signal level from the head unit as possible.

PROTECTION LED COMES ON WHEN THE AMPLIFIER IS POWERED UP.

Check for shorted speaker leads.
Check that volume control on the head unit is turned down low.
Remove speaker leads, and reset the amplifier. If the protection LED still comes on, then the amplifier will shut down automatically when the units' temperature goes up to 80 °C this will protect the unit from damage.

AMPLIFIER GETS VERY HOT.

Check that the minimum speakers impedance for that model is correct.
Check for shorted speaker.
Check that there's good airflow around the amplifier. In some applications, external cooling fan may be required.

DISTORTED SOUND.

Check that the level control's is set to match the signal level of the head unit.
Check that all crossover frequencies have been properly set.
Check for shorts on the speaker leads.

HIGH SQUEAL NOISE FROM SPEAKERS.

This is always caused by a poorly grounded RCA patch cord.

WARNING!

1. Excessive high volume will damage your speakers.
2. Be cautious when you use the amplifier near a gasoline tank and electrical wires.
3. Protect the connecting wires and parts to avoid any damage or short circuit.
4. The power must be connected through the terminal of the battery via a FUSE.
5. The sound system must be in turned off before you check the amplifier for issues.
6. Be sure that you use the same type of FUSE when you need to replace it.

* We reserve the right to make needed change or improvement to the product, without informing customer about this in advance.

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state. This warranty is only valid on Crossfire products purchased in the U.S.A. from an authorized Crossfire dealer. All Crossfire amplifiers and speakers are warranted to be free from defects in materials and workmanship under normal use and service for a period of (1) year when the unit is installed by an authorized Crossfire dealer. Non-authorized dealer installed products carry a (90) days parts and labor limited warranty. The extent and conditions of Crossfire's limited warranty are as follows:

i. Crossfire will either repair or replace (as its option) any unit which Crossfire has examined and found to be defective and under warranty, to the original purchaser, provided the defect occurs within (1) year of the date of purchase when the unit is installed by a non-authorized Crossfire dealer. This warranty includes both parts and labor and applies to the original purchaser only.

ii. Crossfire will either repair or replace (at its option) any unit which Crossfire has examined and found to be defective and under warranty, to the original purchaser, provided the defect occurs within (90) days of the date of purchase when the unit is installed by a non-authorized Crossfire dealer. This (90) days warranty includes both parts and labor and applies to the original purchaser only.

iii. This warranty will be void to any unit found with the original serial number removed, altered or defaced. All units received by Crossfire for warranty with their original serial numbers removed will not be repaired and will be returned to the sender freight collect.

iv. The provisions of this warranty shall not apply to products used for any industrial, professional or commercial purposes or any other uses for which it was not designed or intended.

v. This warranty does not cover cost for removal of product for repair or reinstallation of product after repair, nor does it cover the cost of returning the product to Crossfire's service center for repair.

vi. This warranty does not apply to repairs or replacements necessitated by any cause beyond the control of Crossfire. Including, but not limited to, any malfunction, defect or failure caused by or resulting from unauthorized service or parts, improper maintenance, operation contrary to furnished instructions, shipping or transit accidents, incorrect power line voltages, fire, flood or any other acts of nature, or normal wear and tear.

vii. The foregoing is in lieu of other expressed warranties and Crossfire does not assume or authorize any party to assume for it any other obligation or liability. The durations of any warranties, which may be implied by law (including the warranties of merchantability and fitness), is limited to the term of this warranty. In no event shall Crossfire be liable for special, incidental or consequential damages arising from obligations under this warranty due to cause beyond its control. Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusions or limitation of consequential damages, so the above limitations and exclusions may not apply to you.

viii. Return Policy.

Your unit will be serviced free of charge on an in-warranty basis only. If improper operation occurs, contact your authorized Crossfire dealer for assistance with the return and factory repair of your Crossfire product. If an authorized Crossfire dealer is not available, the following procedure must be followed: phone us at (972) 570-0800 or fax in your name, address, telephone number and the model number of the item(s) to be returned to receive a Return Authorization Number to (972) 570-2200. Your return authorization number must be clearly written on the outside of the packing box returned to Crossfire. All returned products must be accompanied with a dated proof of purchase invoice or the product may be subject to costs of parts and labor. Return the unit in the original protective carton or a carton with ample protection. Please include a brief description of the problem and send your repair to Crossfire.

CROSSFIRE
C A R A U D I O

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