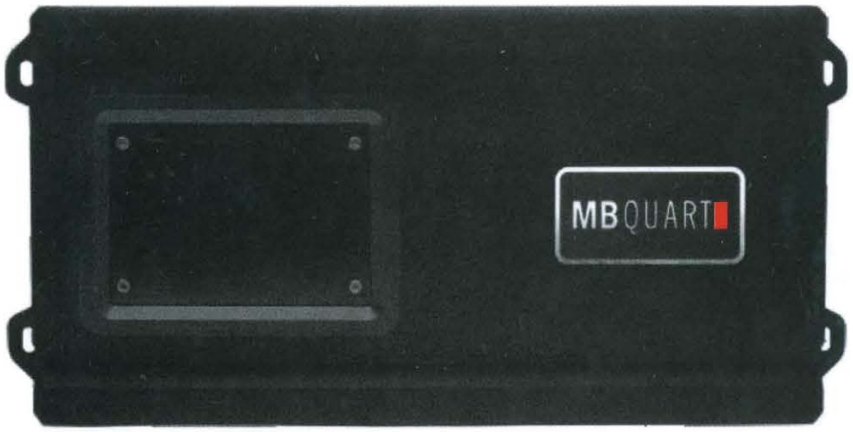
MB QUART®

MUSIC. DEFINED.

Quick Start
Installation Guide



RA1-150.2
RA1-280.4
RA1-300.1
RA1-750.1
RA1-710.5

Before you start

CAUTION

Many new and factory radios require a reset code when disconnected from battery power. This is an anti-theft feature. Before unplugging power, you must determine if your radio/source unit requires a reset code. Check the operation manual for your vehicle or contact the dealer.

Congratulations on your choice of a MBQuart amplifier. This "Quick Start Installation" guide is meant to help you "hook up" and play music. For more detailed information, on system setting, speaker and subwoofer configuration and full specifications by model please visit our website at www.MBQuart.com

Power cable size

It is critical to use the proper power and ground cable. Select the size listed here for your amplifier model. Always use high quality copper cable.

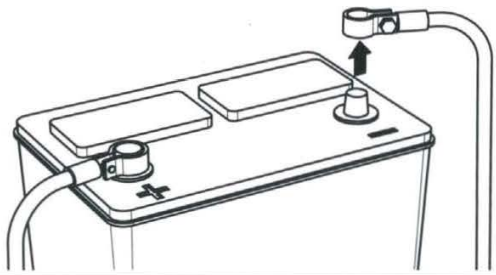
Model	Fuse Size	Cable Size
RA1-150.2	20a External	4ga
RA1-280.4	40a External	
RA1-300.1	40a External	
RA1-750.1	80a External	
RA1-710.5	80a External	

Power cable size and fuse size based on a 17ft power (B+) (OFC) cable length and 18-inch ground (OFC) oxygen free cable.
Any other lengths used please consult a certified professional installer.

Installation

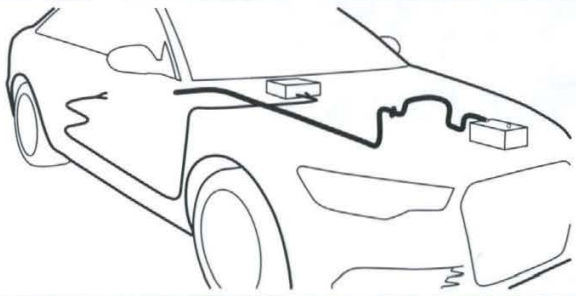
1 *Disconnect Negative Battery Terminal*

Place terminal in a secure position so that it won't accidentally contact the negative battery post



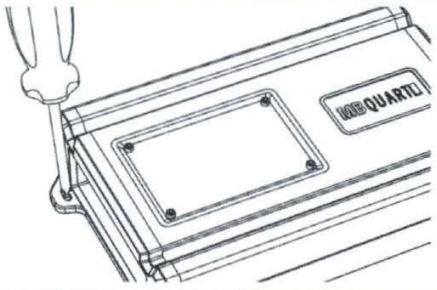
2 *Run Cables*

Properly route power, speaker and RCA cables through the vehicle.



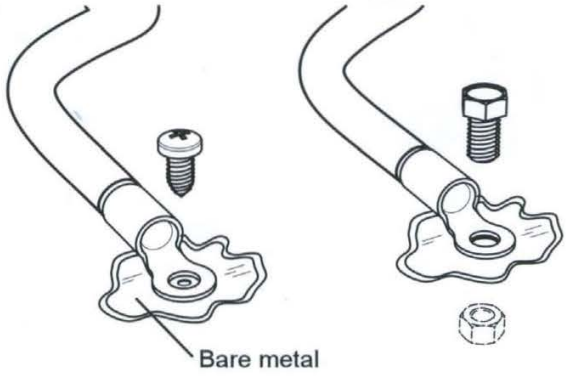
3 *Mount Amplifier*

Choose a mounting location that will provide adequate air ventilation. Mount the amplifier to a secure surface. Do not mount the amplifier upside down.



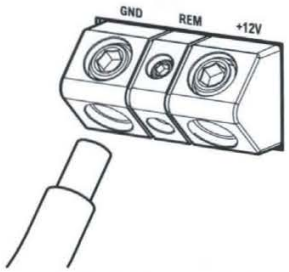
4 Chassis Ground

The chassis ground connection is critical to the performance of the amplifier. Choose a location that is close to the amplifier. Completely scrape away the paint and use a nut and bolt if possible.
DO NOT USE AN EXISTING FACTORY BOLT!



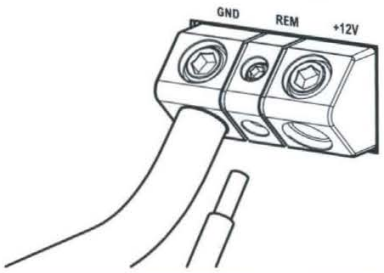
5 Negative Power Connection

Attach the chassis ground cable to the amplifier negative terminal. It is important to make sure this connection is very tight.



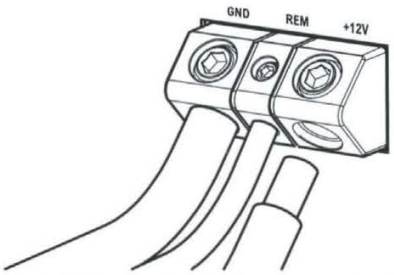
6 Remote Turn-on Connection

Attach the remote turn on wire to the amplifier remote output of the source unit.



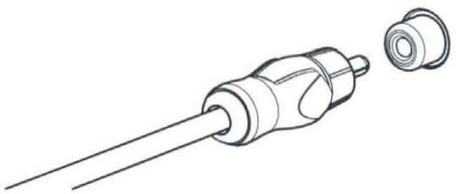
7 Positive Power Connection

Attach the main power cable to the amplifier +12V. The cable must run directly to the battery and be properly fused and be very tight.



8 Signal Input Connection

Connect the RCA cables to the INPUT connectors.

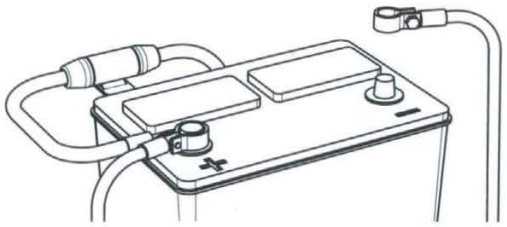


9 Level Control

Turn the LEVEL control completely counter-clockwise to minimum.

10 Positive Battery Connection

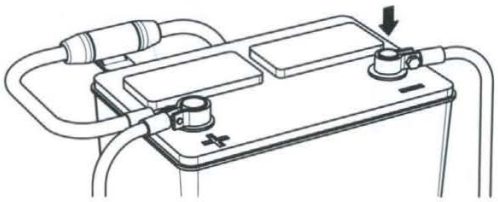
Connect the power cable to the positive battery terminal. The power cable must be fused within 18 inches of the battery terminal.



Be prepared to disarm your vehicle's alarm and to enter your radio / source unit code.

11 Re-connect Negative Battery Terminal

Re-connect the negative battery terminal making sure it is securely tightened.

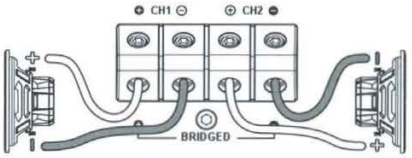


Common System Setup

2ch - Full Range

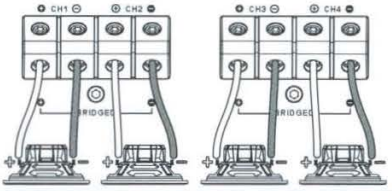
CROSSOVER MODE

FULL HP LP



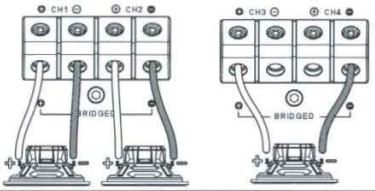
4ch - Full Range

Set INPUT MODE switch to 4CH.
Set CH3&4 LOW PASS MODE.



4ch - Mixed Mono

Set INPUT MODE switch to 4CH.
Set CH3&4 LOW PASS MODE.



Mono

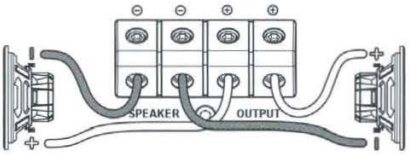
SUBSONIC FREQUENCY

SUB SONIC

25Hz OFF

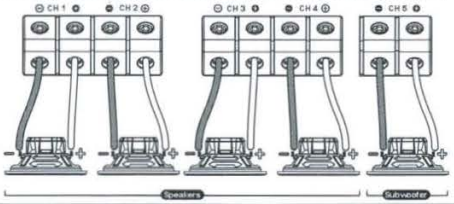
LOW PASS FREQUENCY

50Hz 250Hz



5 ch

Set INPUT MODE to 5CH.
Set CH1&2 and CH3&4 CROSSOVER switch to HP.

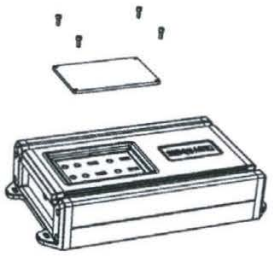


Setup

A Open Control Panel

To gain access to the RA1 amplifier series top mount setting control panel carefully remove the four screws and lift the face plate up.

When you're finished with the control panel mindfully put the face plate back together with the four screws. Make sure not to over tighten.



B Settings

The illustrations below describe the various controls. Refer to the illustration that matches your amplifier.

(1) LEVEL Adjustment

The level control purpose is to match the output of your source signal to the amplifier. Refer to the section C for detailed instructions.

(2) X-OVER Switch

This switch will set the amplifier to have a full frequency output or to filter out high or low frequencies.

(3) Frequencies Adjustment

The Low Pass Filter will cut off the frequencies above the setting. The High Pass Filter will cut off the frequencies below the setting.

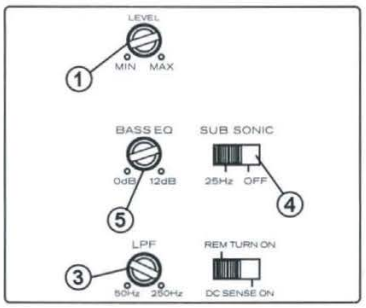
(4) SUBSONIC Switch

The Subsonic Switch will cut off the frequencies below the setting.

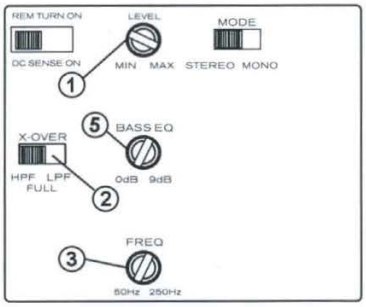
(5) BASS BOOST ⚠

The Bass EQ control will increase the power output at 45Hz for more pronounced bass. Exercise caution when using this control. Increase the level in small amounts until distortion is noticed, then back off a little.

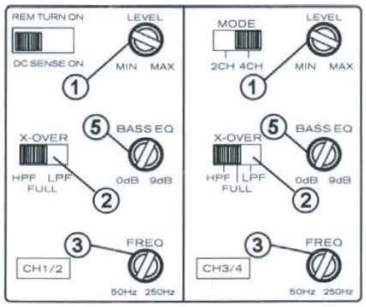
RA1-300.1 / RA1-750.1



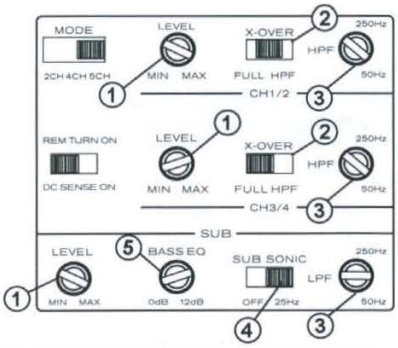
RA1-150.2



RA1-280.4



RA1-710.5



C Level Setting

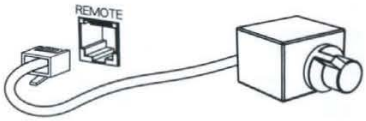
This is a critical step to insure your amplifier is properly adjusted to match the signal output level of your source unit.

THIS IS NOT A VOLUME CONTROL!

1. If possible, with the source unit off, confirm that the primary volume control is turned down (counter clockwise).
2. Turn on the source unit (CD, or MP3 player). Re-confirm that the volume is turned down. Make sure the source unit controls; balance, fader, bass and treble are all set to center or "0" adjustment. Make sure that the green LED on the end of the amplifier is illuminated.
3. Play a clean musical selection of which you are very familiar. CD is preferred. Do not use radio signals for level setting. Hit play and start turning the volume of the source unit up.
4. Stop increasing the source unit volume when you reach 3/4 (about 75%) or until you hear speakers begin to slightly start producing distortion.
5. Increase the amplifier gain (clockwise) until distortion is heard, then back the level down (counter clockwise) until the distortion is eliminated. Small adjustments may need to be made to balance the levels of multiple amplifiers.

D Remote Level Control

Some models include a bass remote. Avoid adjusting the bass remote while operating vehicle.



E Turn on Mode

REM turn on
SIGNAL SENSE ON, High level input DC turn on

REM TURN ON / DC SENSE ON SWITCH

There are two methods of switching the amplifier on and off. Select the appropriate position suited for your application.

REM TURN ON

This will turn on the amplifier when a +12v switched power typically from a source unit, is connected to the Amp Turn on - BLUE wire on the main power connection harness.

DC SENSE

The DC SENSE is for use with the source units that do not offer RCA outputs.

NOTE - If the RCA's are plugged into the amplifier and the TURN ON MODE is in the DC ON position, the amplifier will NOT turn on. Please re-read this document or hire a professional installer.

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WARRANTY

Maxxsonics USA Inc. warrants this product, to the original consumer purchaser, to be free from defects in material and workmanship for a period of one (1) year from the date of purchase. Maxxsonics USA Inc. will, at it's discretion, repair or replace defective products during the warranty period. Components that prove to be defective in materials and workmanship under proper installation and use must be returned to the original authorized Maxxsonics USA Inc. retailer from where it was purchased. A photocopy of the original receipt must accompany the product being returned. The costs associated with removal, re-installation and freight are not the responsibility of Maxxsonics USA Inc. This warranty is limited to defective parts and specifically excludes any incidental or consequential damages connected therewith. To view the full warranty, please visit the website.

MBQuart products are designed and engineered in the USA by

MAXXSONICS®

www.maxxsonics.com

MBQ RA1 QSG 01 - rev1
BO2820

CAUTION
PRECAUCIÓN

This amplifier has a minimum load impedance of 1.0 Ohm.

Todos los amplificadores mono-bloque tienen una impedancia de carga mínima de 1,0 ohmio.

To insure that your amplifier is not damaged due to improper subwoofer configurations or low impedance situations, refer to the information below for some correct subwoofer combinations.

Para asegurar que el amplificador no está dañado debido a configuraciones incorrectas subwoofer o situaciones de baja impedancia, consulte la siguiente información para algunas combinaciones correctas subwoofer.

BEST

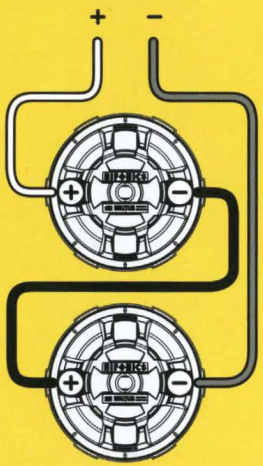
OK

Not Recommended

DO NOT Attempt

Single Voice Coil Subwoofers

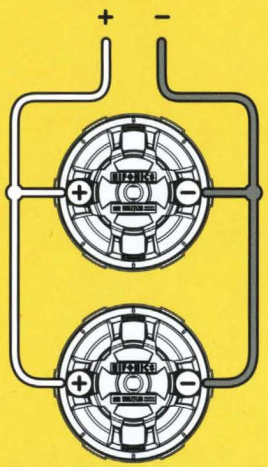
Series



4 Ohm Woofers
8 Ohms

8 Ohm Woofers
16 Ohms

Parallel

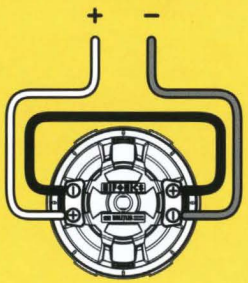


4 Ohm Woofers
2 Ohms

8 Ohm Woofers
4 Ohms

Dual Voice Coil Subwoofers

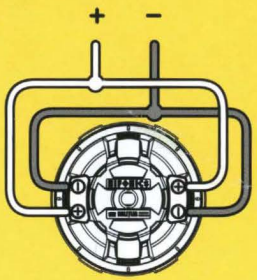
Series



2 Ohm DVC
4 Ohms

4 Ohm DVC
8 Ohms

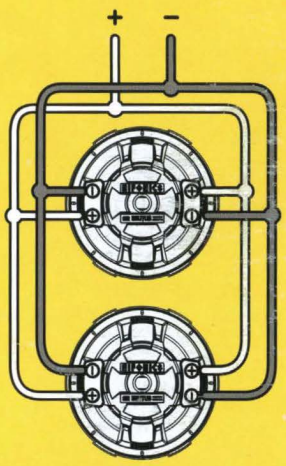
Parallel



2 Ohm DVC
1 Ohm

4 Ohm DVC
2 Ohms

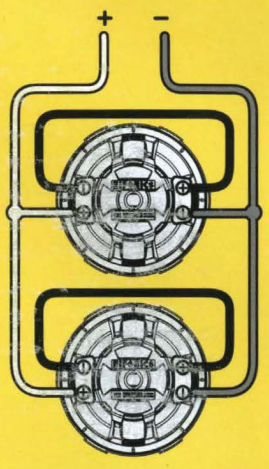
Parallel Parallel



2 Ohm DVC
1/2 Ohm

4 Ohm DVC
1 Ohm

Series Parallel



2 Ohm DVC
2 Ohms

4 Ohm DVC
4 Ohms

Impedances lower than 1 Ohm will cause damage to the amplifier. Any damage that occurs due to load impedances below 1 Ohm will no be covered under warranty.

Las impedancias inferiores a 1 Ohm causarán daños en el amplificador. Cualquier daño que se produzca debido a la carga impedancias por debajo de 1 Ohm, sin estar cubierto por la garantía.

MB QUART®

Reference RA1-710.5

700 Watt 5-Channel Amplifier

English	Spanish	French	
Model	Modelo	Model	**RA1-710.5**
1-Ohm	1 Ohmio	1 Ohm	**1 x 350w Ch5 Only**
2-Ohm	2 Ohmio	2 Ohm	**4 x 100w + 1 x 150 Ch5**
4-Ohm	4 Ohmio	4 Ohm	**4 x 50w + 1 x 150 Ch5**
Frequency Response	Respuesta de frecuencia	Réponse de fréquence	**10-35kHz Ch1-4** **10-250Hz Ch5**
Signal to Noise Ratio	Señalar a la Proporción del Ruido	Signaler à la Proportion de Bruit	**101dB**
THD%	La Deformación Armónica total %	La Déformation Harmonique totale%	**.07%**
Variable Hi-Pass	La variable de Pasa Alto	La variable Haute Passe	**50-250Hz**
Variable Low-Pass	La variable de Pasa Bajo	Bas-Passe variable	**50-250Hz**
Variable Subsonic Filter	Filtro Subsónico variable	Le Filtre Subsonique variable	**25Hz Fixed**
Bass Boost	Empuje Bajo	Poussée Basse	**0-12dB**

Specifications Subject To Change Without Notice