



*Power bd1500.1*

*Power bd1000.1*

*Power bd500.1*



**POWER**

mono amplifier  
operation & installation

Dear Customer,

Congratulations on your purchase of the world's finest brand of car audio amplifiers. At Rockford Fosgate we are fanatics about musical reproduction at its best, and we are pleased you chose our product. Through years of engineering expertise, hand craftsmanship and critical testing procedures, we have created a wide range of products that reproduce music with all the clarity and richness you deserve.

For maximum performance we recommend you have your new Rockford Fosgate product installed by an Authorized Rockford Fosgate Dealer, as we provide specialized training through Rockford Technical Training Institute (RTTI).

Please read your warranty and retain your receipt and original carton for possible future use.

Great product and competent installations are only a piece of the puzzle when it comes to your system. Make sure that your installer is using 100% authentic installation accessories from Connecting Punch in your installation. Connecting Punch has everything from RCA cables and speaker wire to Power line and battery connectors. Insist on it! After all, your new system deserves nothing but the best.

To add the finishing touch to your new Rockford Fosgate image order your Rockford wearables, which include everything from T-shirts and jackets to hats and sunglasses.

To get a free brochure on Rockford Fosgate products and Rockford accessories, in the U.S. call 480-967-3565 or FAX 480-967-8132. For all other countries, call +001-480-967-3565 or FAX +001-480-967-8132.

**PRACTICE SAFE SOUND™**

CONTINUOUS EXPOSURE TO SOUND PRESSURE LEVELS OVER 100db MAY CAUSE PERMANENT HEARING LOSS. HIGH POWERED AUTOSOUND SYSTEMS MAY PRODUCE SOUND PRESSURE LEVELS WELL OVER 130db. USE COMMON SENSE AND PRACTICE SAFE SOUND.

Visit our website for the latest information on all Rockford products.



If, after reading your manual, you still have questions regarding this product, we recommend that you see your Rockford Fosgate dealer. If you need further assistance, you can call us direct at 1-800-669-9899. Be sure to have your serial number, model number and date of purchase available when you call.

The serial number can be found on the outside of the box. Please record it in the space provided below as your permanent record. This will serve as verification of your factory warranty and may become useful in recovering your amplifier if it is ever stolen.

Serial Number: \_\_\_\_\_

Model Number: \_\_\_\_\_

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## ***GETTING STARTED***

Welcome to Rockford Fosgate! This manual is designed to provide information for the owner, salesperson and installer. For those of you who want quick information on how to install this product, please turn to the ***Installation Section*** of this manual or refer to the icons listed below. Other information can be located by using the Table of Contents. We, at Rockford Fosgate, have worked very hard to make sure all the information in this manual is current. But, as we are constantly finding new ways to improve our product, this information is subject to change without notice.



Sections marked  
**INSTALLATION**  
include “slam dunk”  
wiring connections



Sections marked  
**TROUBLESHOOTING**  
include recommendations for  
curing installation problems

# Specifications

| System Model                      | bd500.1                                                                                    | bd1000.1                                                          | bd1500.1                                                          |
|-----------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|
| <b>Frequency Response:</b>        | 10-250Hz ± 3dB                                                                             | 10-250Hz ± 3dB                                                    | 10-250Hz ± 3dB                                                    |
| <b>Bandwidth:</b>                 | 10-250Hz ± 3dB                                                                             | 10-250Hz ± 3dB                                                    | 10-250Hz ± 3dB                                                    |
| <b>Input Sensitivity:</b>         | 125mV to 2.8V                                                                              | 125mV to 2.8V                                                     | 125mV to 2.8V                                                     |
| <b>Protection:</b>                | Over - current protection<br>Battery under - over voltage protection<br>Thermal protection |                                                                   |                                                                   |
| <b>Battery Fuse:</b>              | 50 Amperes                                                                                 | 100 Amperes                                                       | 150 Amperes                                                       |
| <b>Input Impedance:</b>           | 20kΩ                                                                                       | 20kΩ                                                              | 20kΩ                                                              |
| <b>Number of Channels:</b>        | Mono Amplifier <1% THD + N                                                                 |                                                                   |                                                                   |
| <b>RMS Continuous Power:</b>      | 400W into 4Ω<br>with <1% THD<br><br>600W into 2Ω<br>with <1% THD                           | 500W into 4Ω<br>with <1% THD<br><br>1000W into 2Ω<br>with <1% THD | 750W into 4Ω<br>with <1% THD<br><br>1500W into 2Ω<br>with <1% THD |
| <b>Signal to Noise Ratio:</b>     | 90dB A-weighted                                                                            |                                                                   |                                                                   |
| <b>Crossover Slope:</b>           | 24dB/octave Butterworth                                                                    |                                                                   |                                                                   |
| <b>Crossover Frequency Range:</b> | 50 to 250Hz                                                                                |                                                                   |                                                                   |
| <b>Recommended Fuse:</b>          | 50amps*                                                                                    | 100amps*                                                          | 150amps*                                                          |

*\*recommended fuse not supplied*

# Introduction

In R&D for 3 years, the engineers at Rockford Fosgate unveiled a new technology for car audio applications, Class D. The principle was shown to the public at the 1999 CES. The D class amplifier puts over 1000 watts of rms power in the hands of the serious car audio fanatic-- and does so in the relatively small size of the older Power 250.1 package.

Conventional Class D amplifiers have been around for 60 years in theory and about 30 years in practice. Judging from market acceptance, they are not well suited for full range reproduction.

As known to scholars of this field, a system called Class D can remove the troublesome, rail-to-rail carrier envelope by differential subtraction in the load. However, since each output is now an untamed full rail-to-rail switching signal, an RFI problem was generated which has eluded solution over the 30 years of Class D history.

Our new version of this principle, which we call Class D, solves this filtering problem by generating the output pulse waveform without generating the carrier frequency. This unprecedented approach is called Single-Terminal Alternating DUAL Sampling Technology - or STARDUST (patent number 6,097,249.)

## Amplifier Accessory Pack

The accessory pack included with each amplifier contains the mounting hardware necessary to secure the amp to the vehicle and to attach the end caps to the amplifier.

- Installation & Operation Manual
- Punch Verification Certificate
- (4) Amplifier mounting screws (#8 x 3/4" Phillips)
- (2) Speaker Connector Set Screws (3/32" Allen)
- (2) Power Connector Set Screws (1/8" Allen)
- (4) Endbell Mounting Screws (9/64" Allen)
- (1) Allen Wrench (1/8")
- (1) Allen Wrench (9/64")
- (1) Allen Wrench (3/32")
- (1) Remote Punch Bass (replacement part # WP - 2429)
- (1) Remote Punch Bass bracket screws ( 4 x 7/16" Phillips )

# Power Mono Amplifier Feature Chart

## POWER AMPLIFIER

# of Channels                    1  
Stable Into: (mono)            2Ω

## CIRCUITRY

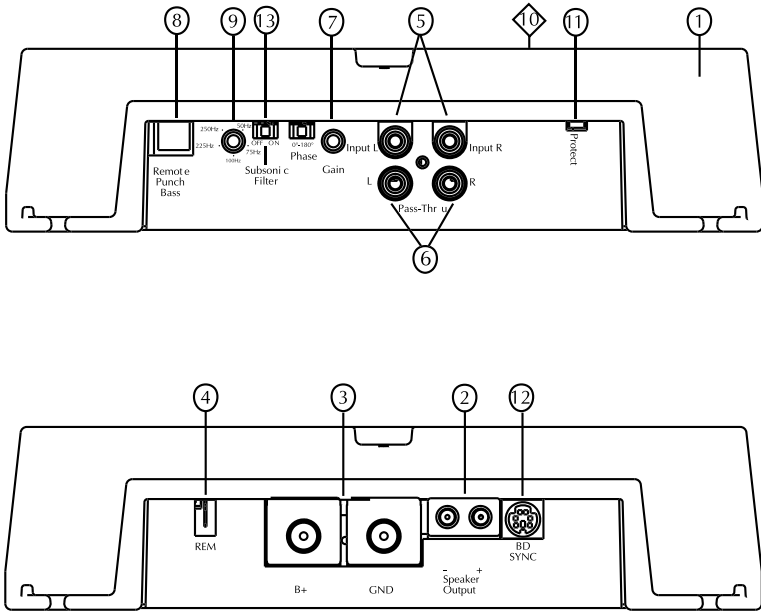
Class bd  
MEHSA<sup>1</sup> - heat dissipating technology  
TOPAZ<sup>2</sup> - patented noise eliminating circuitry  
DSM - discrete surface mount  
MOSFETS - power supply & output devices  
STARDUST<sup>3</sup>

## FEATURES

Die Cast Heatsink  
RCA Inputs - for after market radios  
Pass Thru - feeds signal to aux. amp (eliminates "Y" adapters)  
Pwr/Spk Block Terminals  
4 Gauge PWR/GND  
Variable Punch Bass (0db - + 18db @ 45Hz) (remote)  
Variable Xover (50Hz - 250Hz)  
Crossover Slope (Butterworth) 24db/octave  
bd Sync Capable  
Subsonic Filter

- <sup>1</sup> Additional information on features, specifications and system designs can be found at: [www.rockfordfosgate.com](http://www.rockfordfosgate.com)
- <sup>2</sup> TOPAZ is patented under "U.S. Patent No. 5,751,823"
- <sup>3</sup> STARDUST Class bd (patent pending)

# Design Features



1. **Cast Aluminum Heatsink** – The cast aluminum heatsink of the Punch amplifier dissipates heat generated by the amplifier's circuitry. The inherent advantage of casting provides a 30% improvement of cooling over conventional extrusion heatsink designs.
2. **Speaker Terminals** – The heavy duty, gold-plated terminal block connectors (+ and –) will accept wire sizes from 8 AWG to 18 AWG. These gold-plated connectors are immune to corrosion that can cause signal deterioration.
3. **B+ and GND Terminals** – The heavy duty, gold-plated terminal block connectors (B+ and GND) will accept wire sizes from 4 AWG to 12 AWG. These gold-plated connectors are immune to corrosion that can cause signal deterioration.
4. **REM Terminal** – This spade terminal is used to remotely turn-on and turn-off the amplifier when +12V DC is applied.
5. **RCA Input Jacks** – The industry standard RCA jacks provide an easy connection for signal level input. They are gold-plated to resist the signal degradation caused by corrosion.

## Design Features (Cont'd.)

6. **RCA Pass-Thru Jacks** – The Pass-Thru provides a convenient source for daisy-chaining an additional amplifier without running an extra set of RCA cables from the front of the vehicle to the rear amplifier location.
7. **Gain Control** – The input gain control is preset to match the output of most source units. It can be adjusted to match output levels from a variety of source units.
8. **Remote Punch Bass** - The Punch Bass control helps correct for acoustical deficiencies in the listening environment by helping reproduce full range sound without excessive boost. The Punch Bass control is a narrow band adjustment centered at 45Hz variable from 0db to + 18db. Connection is made with a cable using RJ - 45 and can be installed under the dash for remote access.
9. **Variable Crossover** – The amplifiers have a built-in 24dB/octave Butterworth filter with a crossover point variable from 50Hz to 250Hz. The crossover can be set to Low-Pass (LP).
10. **Power Indicator** – The red logo on top illuminates when the unit is turned on.
11. **Protect LED** - The (red) LED illuminates when the unit is latched into protection. It requires momentary AP removal to enable output PWM.
12. **bd Sync Cable** - The amplifiers have a 6 pin mini DIN connector. When operating two amplifiers in the bridge mode, the SYNC cable must be used. This will allow the two independent frequency carrier generators in each unit to be synchronized.
13. **Subsonic Filter** - A high pass filter designed to prevent frequencies below the audio range from being applied to the core of the amplifier. Consequently, improving loud speaker performance and power handling.



# Installation Considerations

This section focuses on some of the vehicle considerations for installing your new Punch amplifier. Checking your battery and present sound system, as well as pre-planning your system layout and best wiring routes, will save installation time. When deciding how to lay out your new system, be sure that each component will be easily accessible for making adjustments.

Before beginning any installation, be sure to follow these simple rules:

1. Be sure to carefully read and understand the instructions before attempting to install the amplifier.
2. **For safety**, disconnect the negative lead from the battery prior to beginning the installation.
3. For easier assembly, we suggest you run all wires prior to mounting your amplifier in place.
4. Route all of the RCA cables close together and away from any high current wires.
5. Use high quality connectors for a reliable installation and to minimize signal or power loss.
6. **Think before you drill!** Be careful not to cut or drill into gas tanks, fuel lines, brake or hydraulic lines, vacuum lines or electrical wiring when working on any vehicle.
7. Never run wires underneath the vehicle. Running the wires inside the vehicle provides the best protection.
8. Avoid running wires over or through sharp edges. Use rubber or plastic grommets to protect any wires routed through metal, especially the firewall.
9. **ALWAYS** protect the battery and electrical system from damage with proper fusing. Install a fuseholder and appropriate fuse on the +12V power wire within 18" (46 cm) of the battery terminal.
10. When grounding to the chassis of the vehicle, scrape all paint from the metal to ensure a good, clean ground connection. Grounding connections should be as short as possible and always be connected to metal that is welded to the main body, or chassis, of the vehicle.

## Mounting Location

The mounting location and position of your amplifier will have a great effect on its ability to dissipate the heat generated during normal operation. The design of our cast aluminum heatsink serves to easily dissipate the heat generated over a wide range of operating conditions. However, to maximize the performance of your amplifier, care should be taken to ensure adequate ventilation.

### **Trunk Mounting**

Mounting the amplifier vertically on a surface with the fin grooves running up and down will provide the best cooling of the amplifier.

Mounting the amplifier on the floor of the trunk will work but provides less cooling capability than vertical mounting.

Mounting the amplifier upside down to the rear deck of the trunk will not provide proper cooling and will severely affect the performance of the amplifier and is strongly **not** recommended.

### **Passenger Compartment Mounting**

Mounting the amplifier in the passenger compartment will work as long as you provide a sufficient amount of air for the amplifier to cool itself. If you are going to mount the amplifier under the seat of the vehicle, you must have at least 1" (2.54cm) of air gap around the amplifier's heatsink.

Mounting the amplifier with less than 1" (2.54cm) of air gap around the amplifier's heatsink in the passenger compartment will not provide proper cooling and will severely affect the performance of the amplifier and is strongly **not** recommended.

### **Engine Compartment Mounting**

Rockford Fosgate amplifiers should **never** be mounted in the engine compartment. Not only will this void your warranty but could create an embarrassing situation caused by the ridicule from your friends.

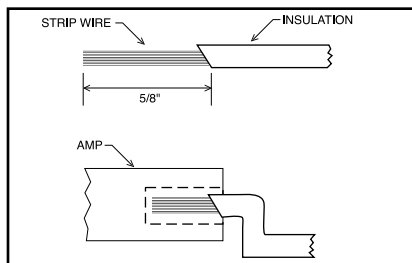
# Battery and Charging

Amplifiers will put an increased load on the vehicle's battery and charging system. We recommend checking your alternator and battery condition to ensure that the electrical system has enough capacity to handle the increased load of your stereo system. Stock electrical systems which are in good condition should be able to handle the extra load of any Rockford amplifier without problems, although battery and alternator life can be reduced slightly. To maximize the performance of your Rockford Fosgate amplifier, we suggest the use of a heavy duty battery and an energy storage capacitor.

# Wiring the System

**CAUTION:** Avoid running power wires near the low level input cables, antenna, power leads, sensitive equipment or harnesses. The power wires carry substantial current and could induce noise into the audio system.

1. Plan the wire routing. Take care when running signal level RCA cables to keep them close together but isolated from the amplifier's power cables and any high power auto accessories, especially electric motors. This is done to prevent coupling the noise from radiated electrical fields into the audio signal. When feeding the wires through the fire-wall or any metal barrier, protect them with plastic or rubber grommets to prevent short circuits. Leave the wires long at this point to adjust for a precise fit at a later time.
2. Prepare the **Power** cable for attachment to the amplifier by stripping 5/8" of insulation from the end of the wire. The use of 8 gauge power cable can interfere with the installation of the end caps. Proper wire dress can prevent this from occurring. To prevent the wire from fraying, strip the insulation at a 45° angle. Insert the bared wire into the B+ terminal with the long side of the insulation on the top. Bend the cable down at a 90° angle. Tighten the set screw to secure the cable in place.



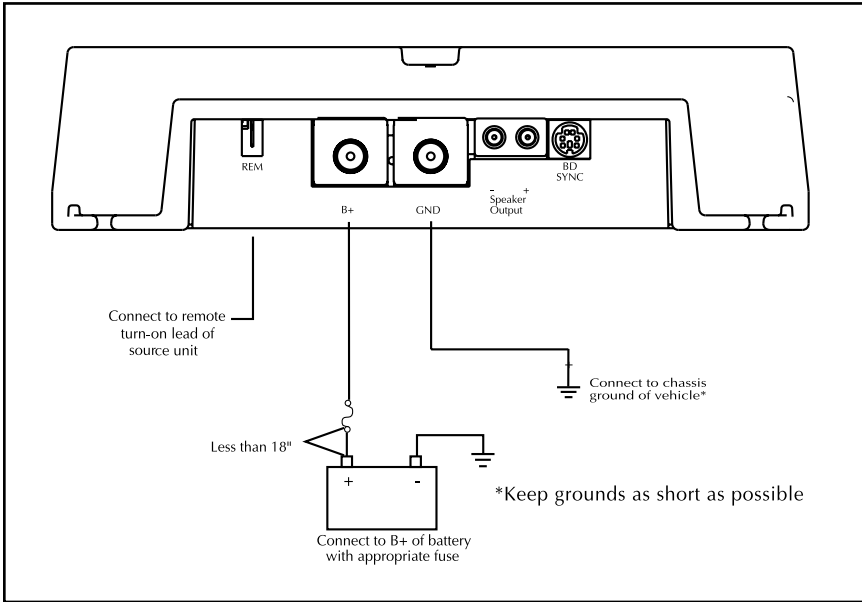
## Wiring the System

3. Strip 3/8" from the battery end of the power cable and crimp a large ring terminal to the cable. Use the ring terminal to connect to the battery positive terminal. Do not install the fuse at this time.
4. Prepare a length of cable to be used for the ground connection. Strip 5/8" of insulation from the end of the cable as described above and connect to the appropriate terminal of the amplifier. Prepare the chassis ground by scraping any paint from the metal surface and thoroughly clean the area of all dirt and grease. Strip the other end of the wire and attach a ring connector. Fasten the cable to the chassis using a non-anodized screw and a star washer.
5. Prepare the REM turn-on wire for connection to the amplifier by stripping 1/4" of insulation from the wire end and crimping an insulated spade connector in place. Slide the connector over the REM terminal on the amplifier. Connect the other end of the REM wire to a switched 12 volt positive source. The switched signal is usually taken from the source units auto antenna or the accessory lead. If the source unit does not have these outputs available, the recommended solution is to wire a mechanical switch in line with a 12 volt source to activate the amplifier.
6. Securely mount the amplifier (with supplied screws) to the vehicle or amp rack. Be careful not to mount the amplifier on cardboard or plastic panels. Doing so may enable the screws to pull out from the panel due to road vibrations or sudden vehicle stops.
7. Determine the number of inputs needed to drive the amplifier and move the input switch to the desired setting (Power 400 & Power 800 4-channel amplifiers only.).
8. Connect the source signal to the amplifier by plugging the RCA cables into the input jack(s) at the amplifier.
9. Connect the speakers. Strip the speaker wires 5/8" and insert into the appropriate terminal on the amplifier. Insert the bare wire into the speaker terminal and tighten the set screw to secure into place. Be sure to maintain proper speaker polarity. DO NOT chassis ground any of the speaker leads, as unstable operation may result.
10. Perform a final check of the completed system wiring to ensure that all connections are accurate. Check all power and ground connections for frayed wires and loose connections which could cause problems from road vibrations.
11. When bridging two BD110001/BD15001 units you must use the BDSYNC cable, available at your local dealer. The speaker grounds of both units must be joined using an 8 gauge wire that is no longer than 15".

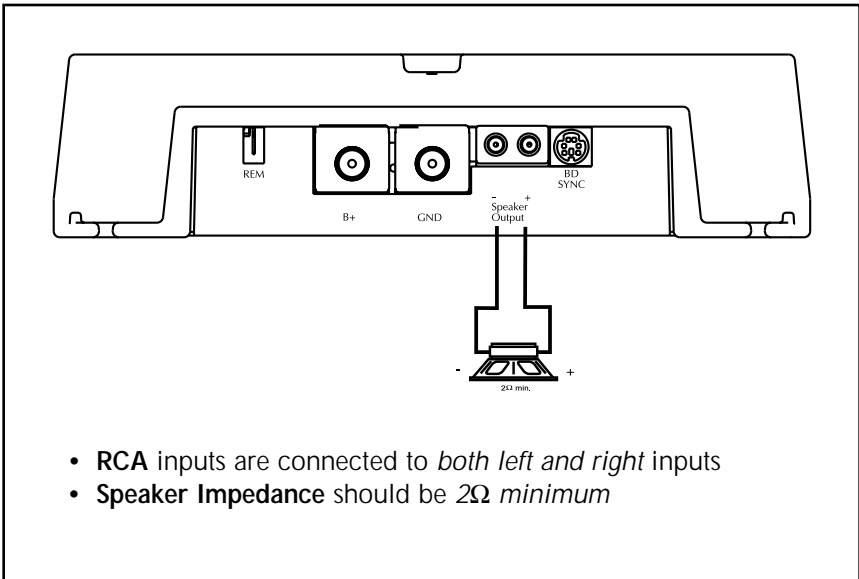
# Installation



## Power Connections

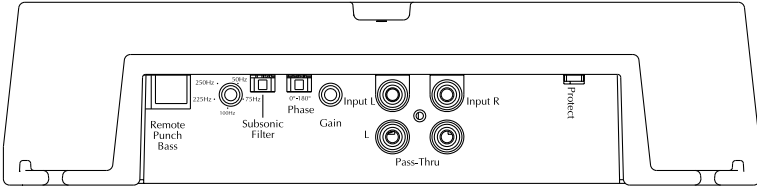


## Mono Mode



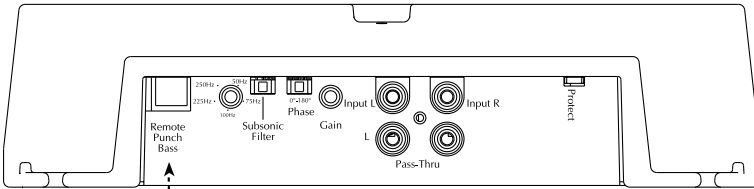


## Crossover Operation

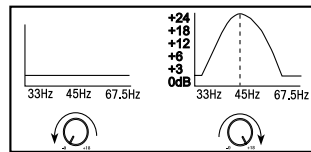


- **Variable Crossover** can be set from 50Hz and 250Hz Low-Pass (LP) only

## Punch Bass Operation



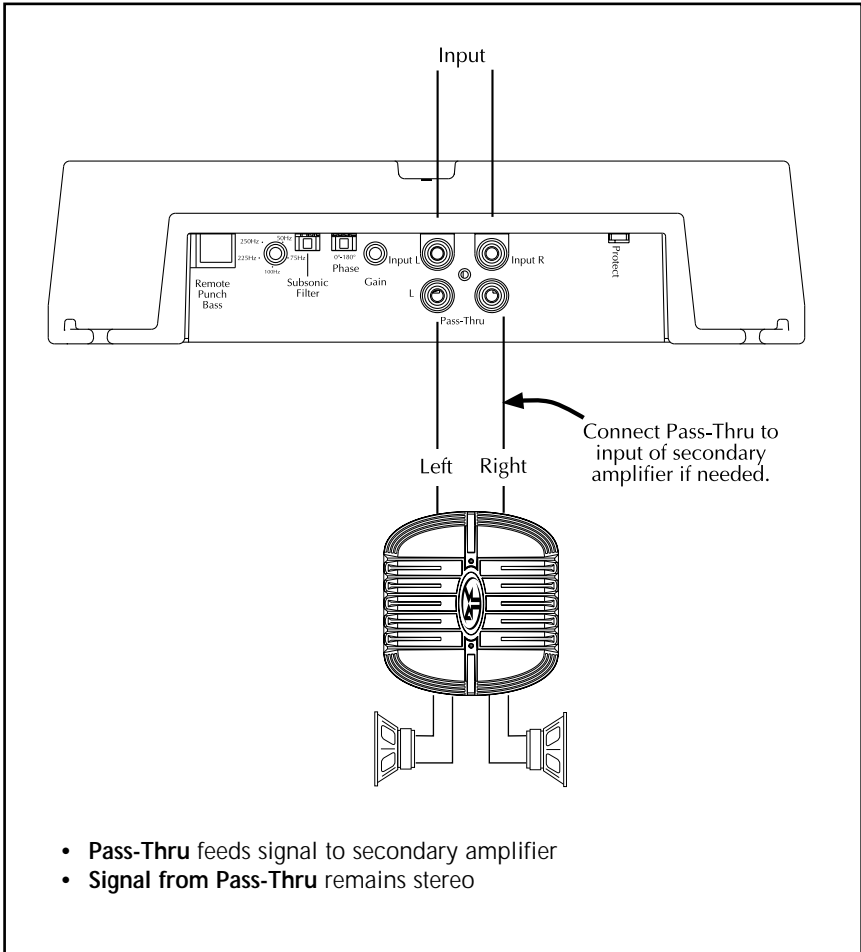
Install Punch Bass in a convenient location under vehicle's dash

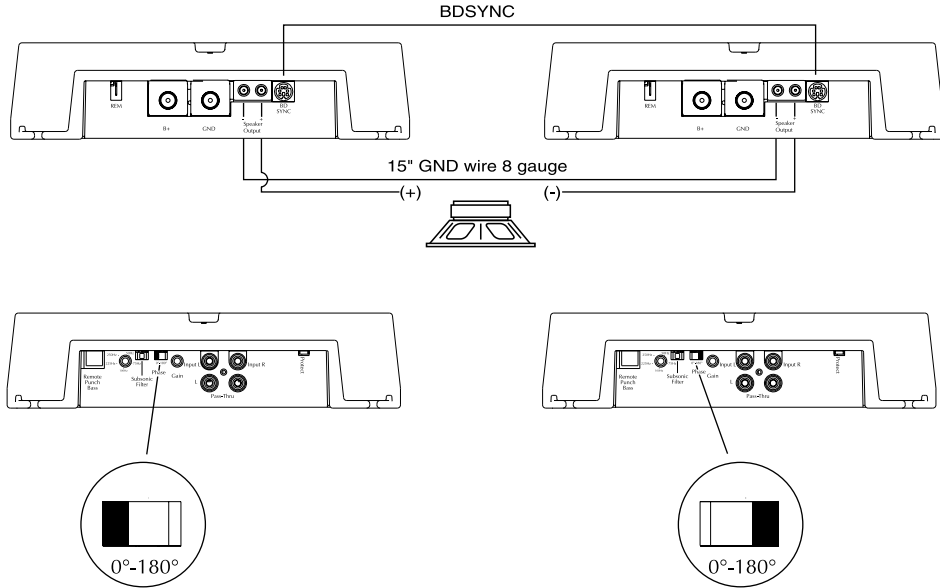


- Carefully increase potentiometer to add Punch to your bass frequencies
- Exercise caution when increasing Punch Bass. Maximum boost can cause potential woofer damage caused by overexcursion



## Pass-Thru





**Bridging Mode**  
(use bd sync kit)

- Connect the two NEG Speaker outputs together using an eight gauge wire no longer than 15".
- When bridging 2 units together, Unit 1 PHASE must be set at 0, Unit 2 PHASE must be set at 180.
- Unit 1 (PHASE set at 0) Connect (+) terminal to (+) Speaker terminal.
- Unit 2 (PHASE set at 180) Connect (+) terminal to (-) Speaker terminal.
- When bridged do not exceed minimum impedance of 4Ω.





# Troubleshooting



If you are having problems after installation follow the Troubleshooting procedures below.

## **Procedure 1: Check Amplifier for proper connections.**

Verify that POWER light is on. If POWER light is on skip to Step 2, if not continue.

1. Check in-line fuse on battery positive cable. Replace if necessary.
2. Verify that Ground connection is connected to clean metal of the vehicle's chassis. Repair/replace if necessary.
3. Verify there is 10.5 - 15.5 Volts of current present at the positive battery and remote turn-on cable. Verify quality connections for both cables at amplifier, stereo, and battery/fuseholder. Repair/replace if necessary.

## **Procedure 2: Check Amplifier for audio output.**

1. Connect a single 4 or 8 ohm test speaker directly to each output channel amplifier. Verify speakers in car are good and wiring between amplifier and speakers, including connectors are good. Repair/replace if necessary.
2. Verify good RCA/high-level input connections at stereo and amplifier. Check entire length of cables for kinks, splices, etc. Test RCA/high-level inputs for AC current with stereo on. Repair/replace if necessary.
3. Disconnect RCA/high-level input from amplifier. Connect RCA/high-level input from test stereo directly to amplifier input.

## **Procedure 3: Check Amplifier if you experience Turn-on Pop.**

1. Disconnect input signal to amplifier and turn amplifier on and off.
2. If the noise is eliminated, connect the REM lead of amplifier to source unit with a delay turn-on module.

**OR**

1. Use a different 12 Volt source for REM lead of amplifier (i.e. battery direct).
2. If the noise is eliminated, use a relay to isolate the amplifier from noisy turn-on output.

## **Procedure 4: Check Amplifier if you experience excess Engine Noise.**

1. Route all signal carrying wires (RCA, Speaker cables) away from power and ground wires.

**OR**

2. Bypass any and all electrical components between the stereo and the amplifier(s). Connect stereo directly to input of amplifier. If noise goes away the unit being bypassed is the cause of the noise.

**OR**

3. Remove existing ground wires for all electrical components. Reground wires to different locations. Verify that grounding location is clean, shiny metal free of paint, rust etc.

**OR**

4. Add secondary ground cable from negative battery terminal to the chassis metal or engine block of vehicle.

**OR**

5. Have alternator and battery load tested by your mechanic. Verify good working order of vehicle electrical system including distributor, spark plugs, spark plug wires, voltage regulator etc.

# Limited Warranty Information

Rockford Corporation offers a limited warranty on Rockford Fosgate products on the following terms:

- **Length of Warranty**

3 years on electronics-90 days on electronic B-stock (receipt required)

1 year on source units

1 year on speakers-90 days on speaker B-stock (receipt required)

- **What is Covered**

This warranty applies only to Rockford Fosgate products sold to consumers by Authorized Rockford Fosgate Dealers in the United States of America or its possessions. Product purchased by consumers from an Authorized Rockford Fosgate Dealer in another country are covered only by that country's Distributor and not by Rockford Corporation.

- **Who is Covered**

This warranty covers only the original purchaser of Rockford product purchased from an Authorized Rockford Fosgate Dealer in the United States. In order to receive service, the purchaser must provide Rockford with a copy of the receipt stating the customer name, dealer name, product purchased and date of purchase.

- **Products found to be defective** during the warranty period will be repaired or replaced (with a product deemed to be equivalent) at Rockford's discretion.

- **What is Not Covered**

1. Damage caused by accident, abuse, improper operations, water, theft

2. Any cost or expense related to the removal or reinstallation of product

3. Service performed by anyone other than Rockford or an Authorized Rockford Fosgate Service Center

4. Any product which has had the serial number defaced, altered, or removed

5. Subsequent damage to other components

6. Any product purchased outside the U.S.

7. Any product not purchased from an Authorized Rockford Fosgate Dealer

- **Limit on Implied Warranties**

Any implied warranties including warranties of fitness for use and merchantability are limited in duration to the period of the express warranty set forth above. Some states do not allow limitations on the length of an implied warranty, so this limitation may not apply. No person is authorized to assume for Rockford Fosgate any other liability in connection with the sale of the product.

- **How to Obtain Service**

Please call 1-800-669-9899 for Rockford Customer Service. You must obtain an RA# (Return Authorization number) to return any product to Rockford Fosgate. You are responsible for shipment of product to Rockford.

Ship to: **Electronics**

Rockford Corporation

Warranty Repair Department

2055 E. 5th Street

Tempe, AZ 85281

RA#: \_\_\_\_\_

Ship to: **Speakers**

Rockford Acoustic Design

(Receiving-speakers)

609 Myrtle N.W.

Grand Rapids, MI 49504

RA#: \_\_\_\_\_

# International Information

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## ESPAÑOL

**LEA DETENIDAMENTE LAS SIGUIENTES INSTRUCCIONES DE INSTALACION DEL PRODUCTO. EVITARA POSIBLES DAÑOS A VD., AL VEHICULO O AL PRODUCTO.**

## INTRODUCCION

Los ingenieros de Rockford han diseñado los amplificadores Power para ofrecer en el difícil entorno de un automóvil una calidad de sonido superior en un producto flexible, fiable y eficiente. Trans•ana es un circuito de baja tensión en la etapa de preamplificación de los amplificadores Power que permite que la música suene limpia y cristalina y muy real, incluso a altos niveles de audición. Esto se complementa con el TOPAZ, un circuito exclusivo de masa utilizado para eliminar los ruidos asociados con las instalaciones de car-audio. La flexibilidad está garantizada con el uso de la XCard incorporada. La fiabilidad se refuerza con el uso de un circuito de protección llamado NOMAD, mientras que los MOSFET y la tecnología DSM (montaje discreto en superficie) aumentan la eficiencia del amplificador. La combinación de todos estos componentes dan al amplificador Power una impresionante calidad de sonido en un chasis discreto. Mas adelante encontrará más explicaciones de todas estas tecnologías, la mayoría de ellas usadas en exclusiva y patentadas por Rockford.

## UBICACIÓN PARA EL MONTAJE

### **Montaje en el Malatero**

Monte el amplificador verticalmente con las líneas del radiador orientadas de arriba hacia abajo. De esta manera conseguira la mejor ventilacion.

### **Montaje en el Compartimento de Pasajeros**

El montaje en el compartimento de pasajeros sera eficiente en funcion de la ventilacion que tenga el amplificador. Si va a instalar el amplificador bajo un asiento debera dejar al menos 2.5cm libres sobre la carcasa del amplificador.

### **Instalacion**

Por seguridad, desconecte el terminal negativo de la bateria antes de comenzar la instalacion.

### Terminal B+

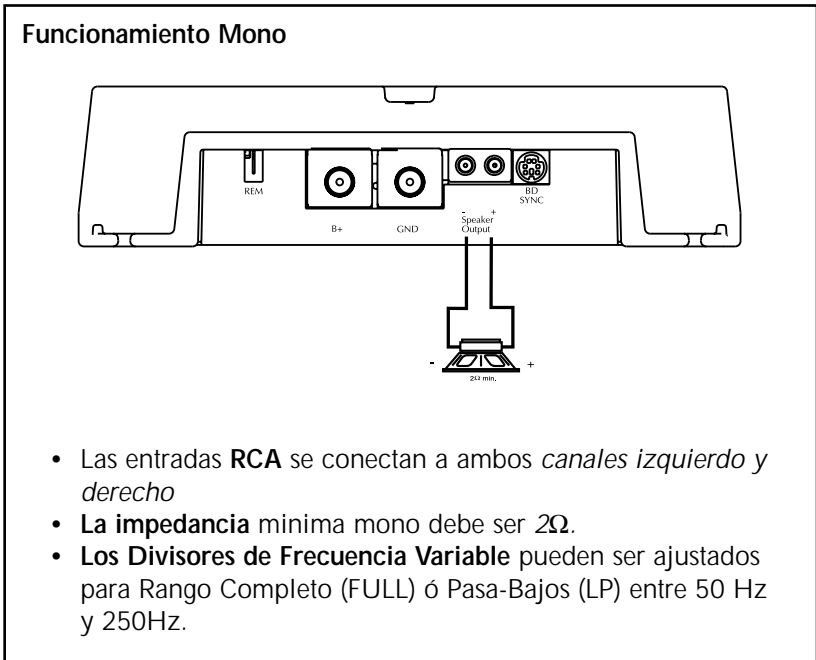
El cable B+ debe ir provisto de un fusible a una distancia no mayor de 45cm de la batería. Prepare el cable e instale el portafusibles en el compartimento del motor. Las conexiones han de ser impermeables.

### Terminal GND

Prepare un trozo de cable para usarlo como toma de masa. Prepare un punto de masa en el chasis rascando y eliminando la pintura de la superficie de metal y límpielo de toda suciedad asegure el cable al chasis con un tornillo.

### Terminal REM

Conecte el cable REM a un punto de +12V con mutable. La señal se suele coger de la salida auto antenna del radio cassette si este no tiene salida remote.



**ATTENTION:** Veuillez lire les instructions suivantes pour l'installation de cet amplificateur. Ne pas les suivre pourrait causer des blessures ou endommager le véhicule.

## INTRODUCTION

Les ingénieurs de Rockford Fosgate ont conçu l'amplificateur Power pour supporter l'environnement rude de l'automobile en délivrant une qualité de son supérieure dans un ensemble efficace, fiable et flexible. Trans•ana est un circuit de bas voltage dans l'étage de préamplification de tous les amplificateurs Power qui reproduit un son musical clair comme du cristal et très réel, même à très haut volume. Ceci est accompagné du TOPAZ, un circuit unique employé pour éliminer les problèmes de bruits parasites associés aux systèmes audiomobile et leur installation. La flexibilité est assurée par l'emploi d'une XCard incorporée.

La fiabilité est garantie grâce au circuit de protection NOMAD, la technologie MOSFET et DSM (Composants Montés en Surface) améliorent l'efficacité de l'amplificateur.

L'ensemble de ces atouts donne à l'amplificateur Power une qualité de son inégalable sous une carrosserie "pare-balles."

Vous trouverez de plus amples informations sur ces technologies, exclusivement conçues et brevetées par Rockford, dans la rubrique technique.

## MONTAGE

### **Montage dans le coffre**

Monter l'amplificateur verticalement avec les rainures de haut en bas ce qui lui permet de refroidir plus facilement.

### **Montage dans l'habitacle**

Monter l'amplificateur dans l'habitacle ne pose aucun problème, du moment qu'il y ait assez d'air pour le refroidir. Si vous montez l'ampli en dessous du siège, prévoyez 3 cm d'air autour du radiateur.

### **Installation**

Pour votre sécurité, déconnectez la borne négative de la batterie du véhicule avant de commencer l'installation.

### Terminal B+

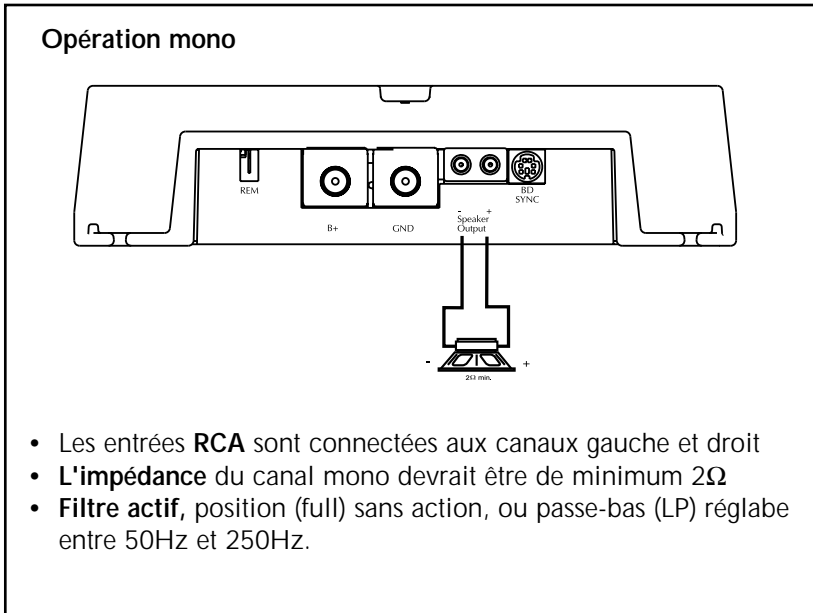
Il est impératif qu'il y ait un fusible sur le câble pour la connexion à la masse. Préparez le châssis en grattant la peinture de la surface métallique et nettoyez la saleté et l'huile. Attachez le câble au châssis avec une vis.

### Terminal GND

Préparez une longueur de câble pour la connexion à la masse. Préparez le châssis en grattant la peinture de la surface métallique et nettoyez la saleté et l'huile. Attachez le câble au châssis avec une vis.

### Terminal REM

Connectez le fil REM à une commande 12 volts positive de la source. La commande 12 volts est habituellement prise sur la sortie antenne électrique de la source ou la commande accessoire. Si la source ne dispose pas de ces sorties, nous vous recommandons d'installer un interrupteur qui fournira un positif 12 volts au REM de l'amplificateur.



**BITTE LESEN SIE DIESE GEBRAUCHSANLEITUNG ZUERST SORGFÄLTIG DURCH. DAS KANN SIE VOR DEM FALSCHEN EINSATZ, AUSFALLEN ODER SOGAR BESCHÄDIGUNG DES PRODUKTES ODER IHRES FAHRZEUGES SCHÜTZEN.**

## Einleitung

Rockford Ingenieure haben die Power Verstärker entwickelt. Mit höchstem Technologie-Standart, hervorragender Klangqualität, einfacher Handhabung und bester Servicefreundlichkeit Trans•ana ist eine Nieder-Volt Schaltung im Vorverstärkerteil aller Power Verstärker die für kristallklaren Klang auch bei sehr hohen Lautstärken sorgt. TOPAZ, eine einzigartige Erdungsschaltung verhindert und unterdrückt Einstreuungen und Störungen die nur allzu oft Car Audio Systeme beeinträchtigen. Flexibilität durch die Vielfalt der Aktivweiche mit ihren XCards, lange Lebensdauer durch die Schutzschaltung NOMAD und der Einsatz von MOSFET Transistoren und DSM (Discrete Surface Mount), machen diese Verstärker so effizient. Das Ergebnis all dieser Komponenten machen Power-Verstärker so einzigartig und in ihrer Klangqualität nahezu unschlagbar. Eine genauere Beschreibung dieser Technologien, die größtenteils einzigartig und von Rockford patentiert sind, finden Sie unter Technical Design Features.

## Einbauort

### **Im Fahrzeugkofferraum**

Der vertikale Einbau der Endstufen, das bedeutet, daß die Kühlrippen von oben nach unten verlaufen, gibt dem Verstärker die beste Kühlung.

### **Auf der Beifahrerseite**

Sollte der Verstärker auf der Beifahrerseite montiert werden, so ist es sehr wichtig, für eine ausreichende Kühlung zu sorgen. Sollte der Verstärker z.B. unter dem Beifahrersitz montiert werden, sollte dem Kühlkörper mindestens ein Luftspalt von 3 cm bleiben, um so für eine ausreichende Kühlung zu sorgen.

### **Einbau**

Zur Sicherheit klemmen Sie den Negativ-Pol der Batterie während des gesamten Einbaues ab.

## B+ Anschluss

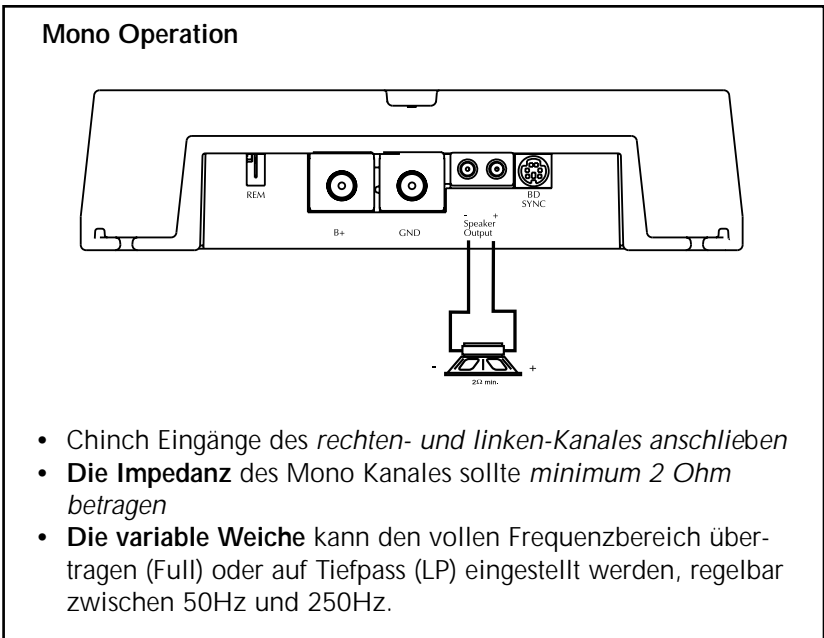
Die Plus-Leitung MUß ca. 40 cm nach dem Plus-Pol der Batterie abgesichert sein. Preparieren Sie die Kabellängen und montieren Sie den Sicherungshalter im Motorraum. ALLE Verbindungen müssen wasserdicht sein.

## GND Anschluss

Preparieren Sie Ihr Kabel für die Negativ Leitung (Erdung). Preparieren Sie die Anschlussstelle des Erdungskabels, indem Sie das Metall gründlich reinigen und vom Lack befreien. Befestigen Sie nun die Erdung an dieser Stelle mit einer Schraube.

## REM Anschluss

Verbinden Sie das Ein- und Ausschaltungskontroll-Kabel mit Ihrem Radio (12 Volt positiv). Normalerweise verwenden Sie hierfür die Ant.-Remote Ihres Radios oder ein eigens dafür vorgesehenes Kabel (Amp-Remote). Sollte Ihr Radio diesen Anschluß nicht besitzen, so verwenden Sie eine 12 Volt Spannung, die Sie durch einen Schalter ein- und ausschalten können.





**ATTENZIONE: SI PREGA DI LEGGERE LE SEGUENTI ISTRUZIONI PER L'INSTALLAZIONE DI QUESTO PRODOTTO. IL NON SEGUIRLE POTREBBE RISULTARE SERIAMENTE DANNOSO PER LA PERSONA O PER IL VEICOLO.**

### INTRODUZIONE

Gli ingegneri Rockford hanno progettato la serie di amplificatori Power per resistere all'ostico ambiente automobilistico mentre suonano con una musicalità superiore, offrendo un insieme versatile, affidabile ed efficiente. Trans•ana é un circuito a bassa tensione dello stadio preamplificatore del Power che permette al suono di essere cristallino e reale anche in presenza di volumi molto elevati... tutto questo é accoppiato TOPAZ, un esclusivo circuito di massa impiegato per eliminare i problemi di rumore comunemente presenti negli impianti car audio. Il massimo della versatilità é raggiunto con l'impiego delle XCard. L'affidabilità é completamente garantita dall'impiego di un circuito di protezione chiamato NOMAD, mentre l'uso di MOSFET e della tecnologia DSM (Discrete Surface Mount) permette di raggiungere efficienze elevatissime. Il risultato finale di tutte queste tecnologie moderne é che gli amplificatori Power suonano meravigliosamente e sono indistruttibili, a "prova di proiettile." Una spiegazione di queste tecnologie innovative, molte coperte da brevetti Rockford, sono descritte in un'altra sezione di questo manuale.

### DOVE POSIZIONARLO

#### **Nel Bagagliaio**

Montando l'amplificatore su una superficie in verticale con le alette direzionate dall'alto verso il basso si garantirá un miglior raffreddamento dell'amplificatore.

#### **Nell'abitacolo**

Montare l'amplificatore nell'abitacolo si avrà un funzionamento regolare se si garantisce un flusso d'aria sufficiente. Per l'installazione sotto un sedile, é necessario avere uno spazio di almeno 3 cm attorno a tutto l'amplificatore.

#### **Installazione**

Per sicurezza, scollegare il polo negativo della batteria dell'auto prima di iniziare l'installazione.

### Terminale B+ (cavo positivo)

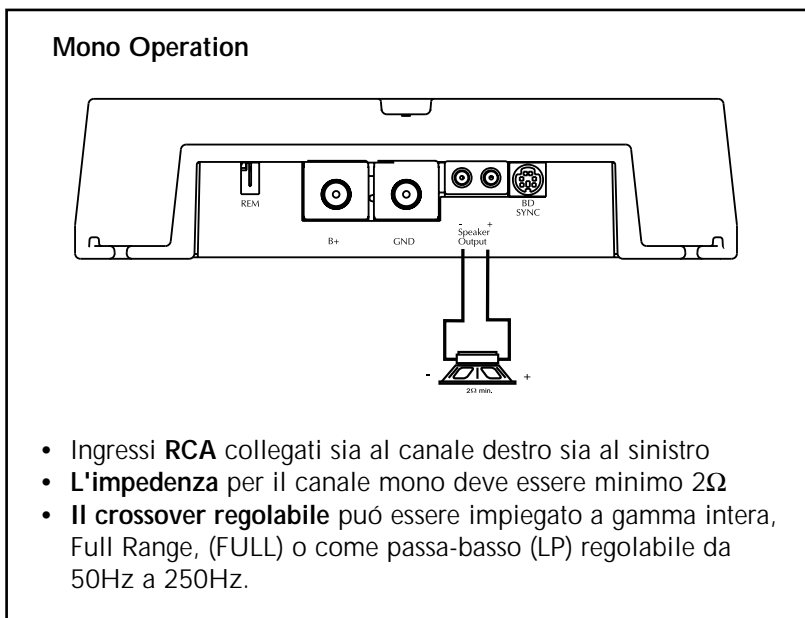
Il cavo positivo deve essere protetto da un fusibile a non più di 45 cm dalla batteria. Terminare il cavo e installare il fusibile nel vano motore. Tutte le connessioni devono essere a prova d'acqua.

### Terminale GND (cavo negativo)

Decidere la lunghezza del cavo e terminarlo. Preparare la massa grattando la vernice dal telaio dell'auto ed eliminando tracce di olio o sporco. Fissare il cavo di massa al telaio con una vite.

### Terminale REM (Consenso di accensione)

Collegare il cavo REM ad un positivo presente solo ad autoradio accesa (normalmente il cavo pilota dell'antenna elettrica o il cavo accessori dell'autoradio). Se la sorgente non dovesse essere equipaggiata con queste uscite, la soluzione raccomandabile é di inserire un interruttore su un cavo positivo e connettersi all'amplificatore.



# Notes

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Installation assistance available at:

# RFTECH

[www.rockfordfosgate.com/rftech](http://www.rockfordfosgate.com/rftech)

## MADE IN THE USA

This product is designed, developed and assembled in the USA by a dedicated group of American workers. The majority of the components used in the construction of this product are produced by American companies. However, due to the global nature of their manufacturing facilities and the loudspeaker parts industry in general, some parts may be manufactured in other countries.



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