

**MACROM**

MACROM SA. LUXEMBOURG, MENDRISO BRANCH  
3 MOREE ST., CH 6850 MENDRISO  
SWITZERLAND

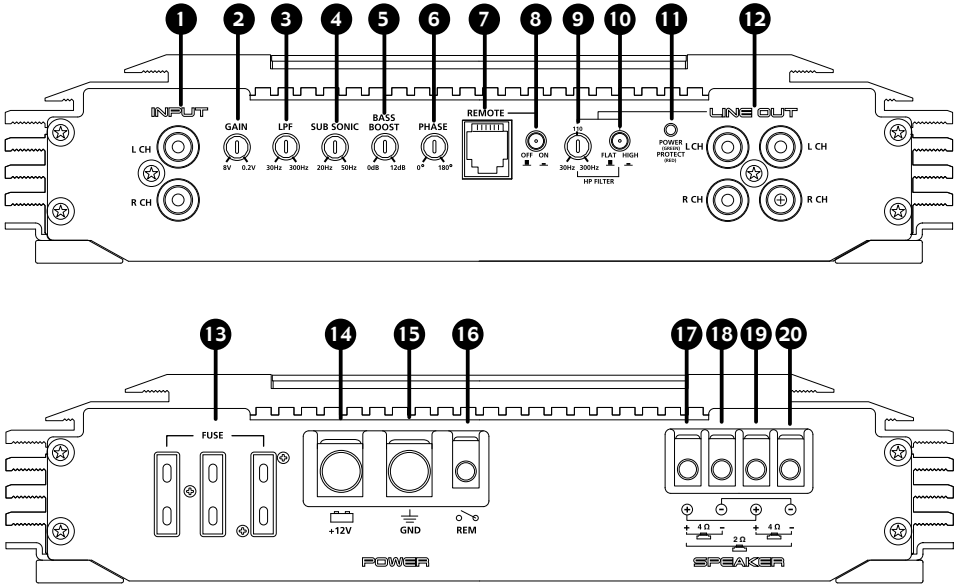
# MACROM



**M1A.15000**

**Owner's Manual**

# Front/Rear view



- 1 Low Level Input
- 2 Gain Control
- 3 Low pass cutting adjustment
- 4 Sub Sonic adjustment
- 5 Bass Boost adjustment
- 6 Phase control
- 7 EBC (External Remote control)
- 8 EBC ON/OFF switch
- 9 High pass cutting adjustment
- 10 High pass switch
- 11 Led indicator
- 12 Line Output
- 13 Fuses
- 14 12V (DC) power terminal
- 15 Remote terminal
- 16 GND terminal
- 17 19 + Terminal Speaker
- 18 20 - Terminal Speaker

## Features

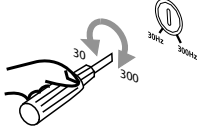
- **Class D mono channel power amplifier**
- **1500 watts into 2 ohms load**
- **900 watts into 4 ohms load**
- **High efficiency Class D design**
- **Variable 24dB/oct Low pass x-over**
- **Variable 24dB/oct Sub sonic filter from 20 to 55Hz**
- **Adjustable from 0 to +12dB at 45Hz Bass Boost**
- **Phase control from 0 to 180°**
- **EBC external bass control**
- **Pre-amplified output with High pass crossover option**
- **PWM Mos-Fet power supply**
- **20sq.mm power terminals**

## Technical data

|  |                           |
|--|---------------------------|
| RMS Power at 4 ohm Stereo load at 14,4 volts | 900 x 1 watts             |
| RMS Power at 2 ohm Stereo load at 14,4 volts | 1500 x 1 watts            |
| THD (total Harmonic Distortion)              | < 0,5%                    |
| Frequency response (+0/-1 dB)                | 10 - 300Hz                |
| Signal to noise ratio                        | > 95dB                    |
| Low Input sensitivity                        | 200-8,000mV               |
| Input impedance                              | 22k ohm                   |
| Crossover type                               | Variable 24dB/octave      |
| Crossover frequency (Low-pass)               | 30 to 300Hz               |
| Sub sonic filter                             | 20 to 50Hz at 24dB/octave |
| Bass Boost                                   | 0 to 12dB @ 40Hz          |
| Phase  | 0° to 180°                |
| Line Out                                     | 1-1 (with High pass)      |
| EBC "Exernal Bass Control"                   | YES                       |
| Dimension (w * h * d) mm                     | 250 x 55 x 430            |

# Crossover and Setting

## 3 Low pass cutting adjustment



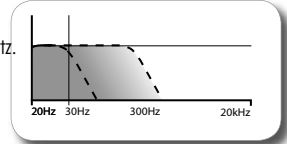
**(Eng)** The cut frequency is selectable between 30 to 300 Hz.

**(FR)** La fréquence de coupe est sélectionnable entre 30 à 300 hertz.

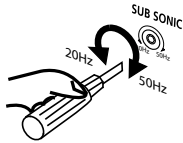
**(IT)** La frequenza di taglio è selezionabile fra 30 a 300 Hz.

**(D)** Die Schnittfrequenz ist zwischen 30 bis 300 Hz.

**(SP)** La frecuencia del corte es seleccionable entre 30 a 300 hertzios.



## 4 Sub Sonic Filter adjustment



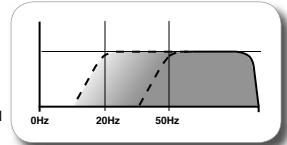
**(Eng)** Adjust the frequency of departure of the Subsonic filter from 20 to 50Hz in agreement to the connected loudspeaker.

**(FR)** Ajustez la fréquence du départ du filtre subsonique à 20 sur 50Hz d'accord sur le haut-parleur relié.

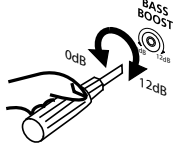
**(IT)** Regolare la frequenza di partenza del filtro Subsonic da 20 a 50Hz in accordo all'altoparlante connesso

**(D)** Justieren Sie die Frequenz der Abfahrt des Unterschallfilters von 20 auf 50Hz in der Vereinbarung auf den verbundenen Lautsprecher.

**(SP)** Ajuste la frecuencia de la salida del filtro subsonico a partir del 20 a 50Hz en el acuerdo al altavoz conectado.



## 5 Bass Boost adjustment



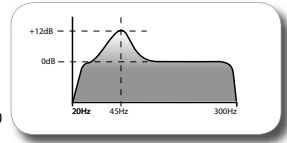
**(Eng)** It is possible to increase the range of the low frequency being regulated the level of Bass Boost from 0 to +12dB.

**(FR)** Il est possible d'augmenter la gamme du de basse fréquence étant réglé le niveau de la poussée basse de 0 à +12dB.

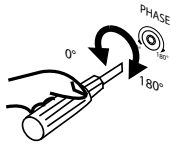
**(IT)** E' possibile incrementare la gamma dei bassi regolando il livello di Bass Boost da 0 a +12dB.

**(D)** Es ist möglich, die Strecke des Niederfrequenz regulierend das Niveau der Tiefenanhebung von 0 auf +12dB. zu erhöhen.

**(SP)** Es posible aumentar la gama de la frecuencia baja que es regulada el nivel del alza baja a partir de la 0 a +12dB.



## 6 Phase adjustment



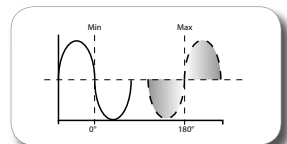
**(Eng)** With the Phase it is possible to approach or to distance the sound proveniente from the sub in agreement to the point of listen.

**(FR)** Avec la phase il est possible de s'approcher ou pour distancer le proveniente sain du sous-marin d'accord au point de moi écoute.

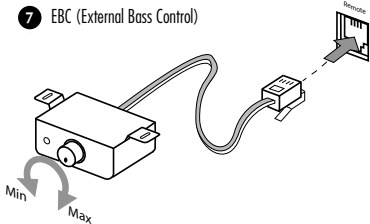
**(IT)** Con la Fase è possibile avvicinare o distanziare il suono proveniente dal sub rispetto al punto di ascolto.

**(D)** Mit der Phase sich zu nähern ist möglich, oder, das stichhaltige proveniente vom Unterseeboot in der Vereinbarung zum Punkt von höre mir zu überholen.

**(SP)** Con la fase es posible acercarse o distanciar el proveniente de los sonidos del submarino en el acuerdo al punto del mí escucho.



## 7 EBC (External Bass Control)



**(Eng)** Through control Remote EBC, it is possible to control the level of the Volume of the amplifier. Placed control EBC in the front part of the vehicle.

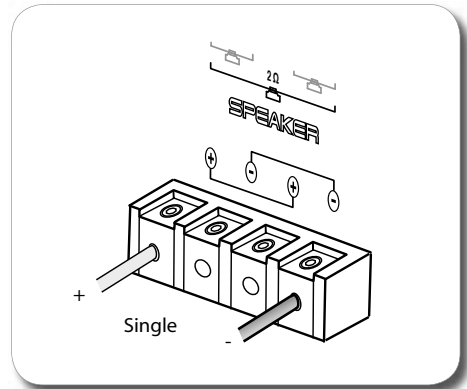
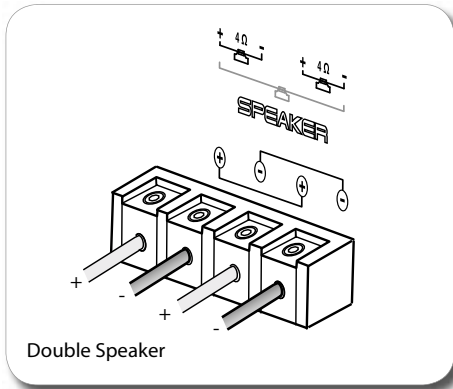
**(FR)** Par la commande EBC à distance, il est possible de commander le niveau du volume de l'amplificateur. Commande placée EBC dans la partie avant du véhicule.

**(IT)** Tramite Il controllo Remote EBC, è possibile controllare il livello del Volume dell'amplificatore. Colocate il controllo EBC nella parte anteriore del veicolo.

**(D)** Durch Steuerung Remote-EBC, ist es möglich, das Niveau des Volumens des Verstärkers zu steuern. Gesetzt Steuerung EBC im Vorderteil des Trägers.

**(SP)** Con el control EBC alejado, es posible controlar el nivel del volumen del amplificador. Control puesto EBC en la parte delantera del vehículo.

# Speakers connection



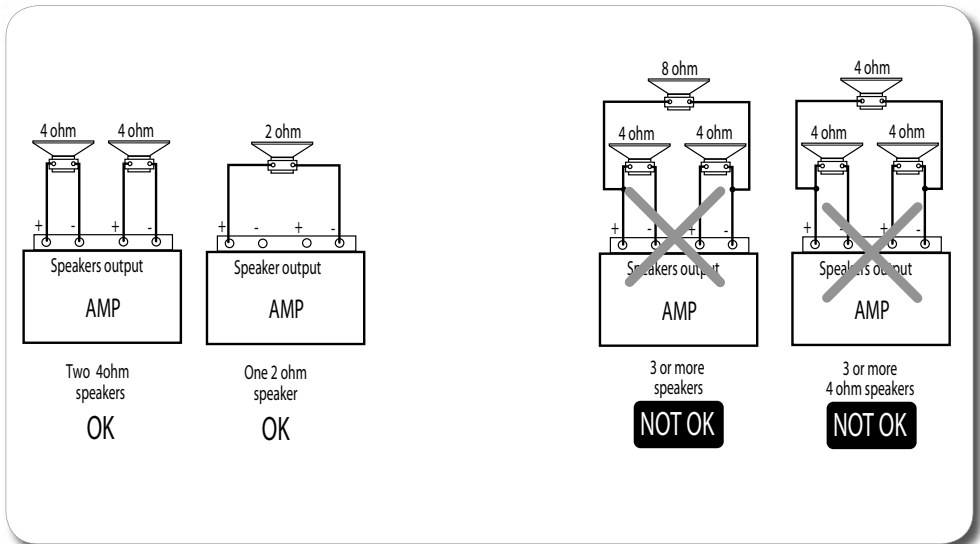
**(Eng)** Minimal acceptable Impedance 2 ohm. To adhere itself to the illustrations for the connections.

**(FR)** Impédance acceptable minimale 2 ohms. Pour s'adhérer aux illustrations pour les raccordements.

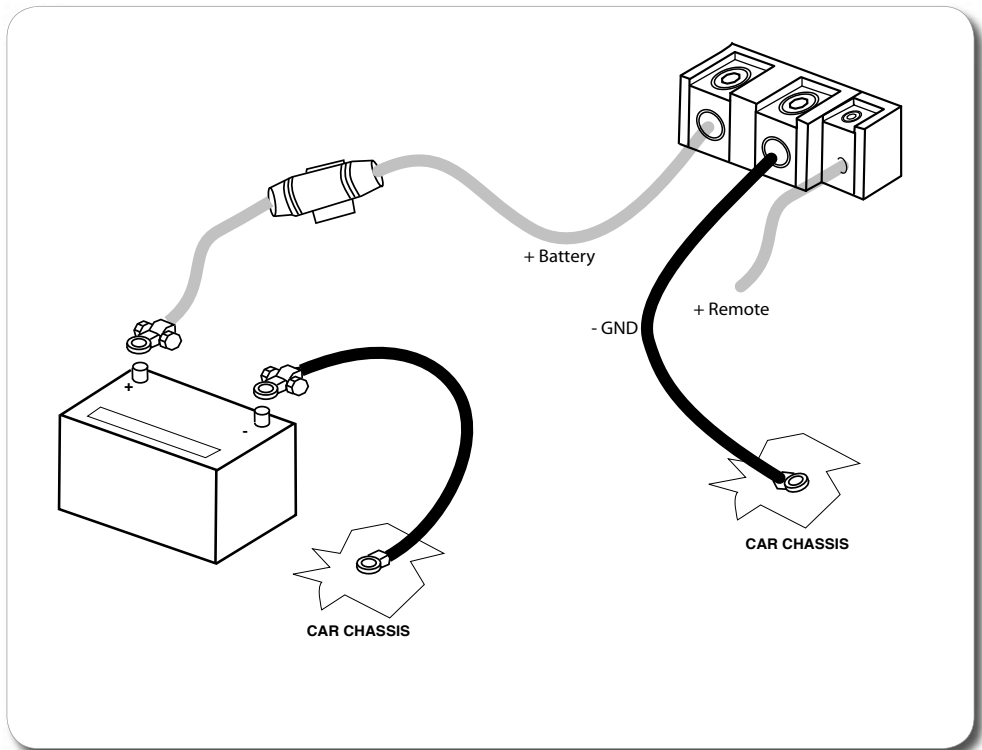
**(IT)** Minima Impedenza accettabile 2 ohm. Attenersi alle illustrazioni per i collegamenti

**(D)** Minimaler annehmbarer Widerstand 2 Ohm. Sich die Abbildungen für die Anschlüsse befolgen.

**(SP)** Impedancia aceptable mínima 2 ohmios. Para adherirse a las ilustraciones para las conexiones.



## Power connection



**(Eng)** Connect the Positive (+12V) directly to the Battery of the car. To make sure itself to insert a fuse of adequate amperage in order protect the system. Connect the Ground in to the car chassis, close as possible to the amplifier.

**(FR)** Reliez le positif (+12V) directement à la batterie de la voiture. Pour s'assurer soi-même pour insérer un fusible d'ampérage proportionné dans l'ordre protégez le système.  
Reliez le négatif dedans au châssis de voiture, fin comme possible à l'amplificateur.

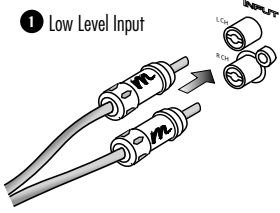
**(IT)** Collegare il Positivo (+  
Collegare il Negativo al telaio dell'automobile, più vicino possibile all'amplificatore.

**(D)** Schließen Sie das Positiv (+12V) direkt an die Batterie des Autos an. Um sicherzustellen selbst zum einer Sicherung der ausreichenden Stromstärke im Auftrag einzusetzen schützen Sie das System.  
Schließen Sie das Negativ innen an das Autochassis an, Ende, wie möglich zum Verstärker.

**(SP)** Conecte el positivo (+12V) directamente con la batería del coche. Para cerciorarse de sí mismo para insertar un fusible del amperaje adecuado en orden proteja el sistema.  
Conecte la negativa adentro con el chasis del coche, cierre como sea posible al amplificador.

## Input setting

### 1 Low Level Input



**(Eng)** Connect the output Audio coming from the car radio, in to the Low level input of the amplifier.

**(FR)** Relier l'output Audio provenant de l'autoradio, au input Low level de l'amplificateur.

**(IT)** Collegare l'uscita Audio proveniente dall'autoradio, all'ingresso Low level dell'amplificatore.

**(D)** Das Ausgang Audiokommen von vom Autoradio anschließen, das niedrige Niveau des Verstärkers einzugeben.

**(SP)** Para conectar venir audio de la salida de la radio de coche, entrar el nivel bajo del amplificador.

**(Eng)** Adjust the gain control, according to the Audio level output.

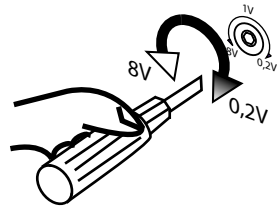
**(FR)** Ajustez la commande de gain, selon le rendement de niveau audio.

**(IT)** Regolare il controllo di guadagno, in funzione del segnale Audio in uscita.

**(D)** Justieren Sie die Gewinnsteuerung, entsprechend dem waagrecht ausgerichteten Audioausgang.

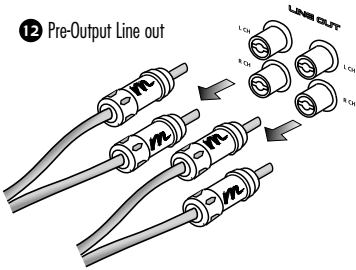
**(SP)** Ajuste el control del aumento, según la salida llana audio.

### 2 Gain Control



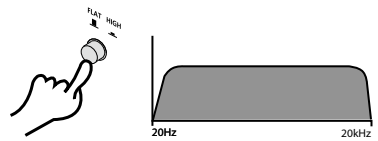
## Line Out setting

### 12 Pre-Output Line out



### 10

Flat/High switch



**(Eng)** Select "FLAT" for a complete frequency range.

**(FR)** Choisissez "FLAT" pour une gamme de fréquence de complete.

**(IT)** Selezionare "FLAT" per una completa risposta in frequenza.

**(D)** Wählen Sie "FLAT" für einen complete Frequenzbereich vor.

**(SP)** Seleccione "FLAT" para una gama de frecuencia del complete.

**(Eng)** The cut frequency is selectable between 30 to 300 Hz.

**(FR)** La fréquence de coupe est sélectionnable entre 30 à 300 hertz.

**(IT)** La frequenza di taglio è selezionabile fra 30 a 300 Hz.

**(D)** Die Schnittfrequenz ist zwischen 30 bis 300 Hz.

**(SP)** La frecuencia del corte es seleccionable entre 30 a 300 hertzios.

### 9

High pass cutting adjustment

