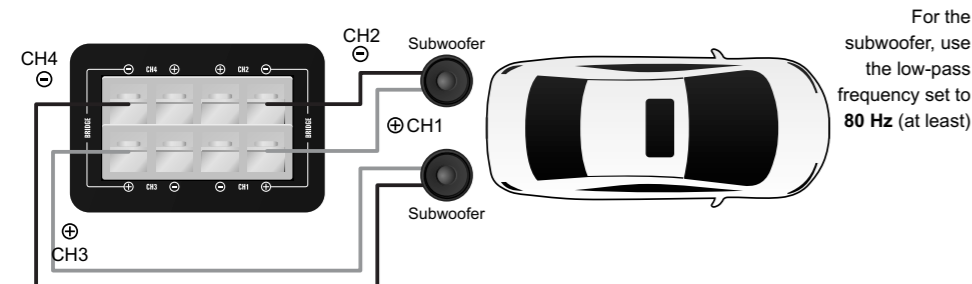
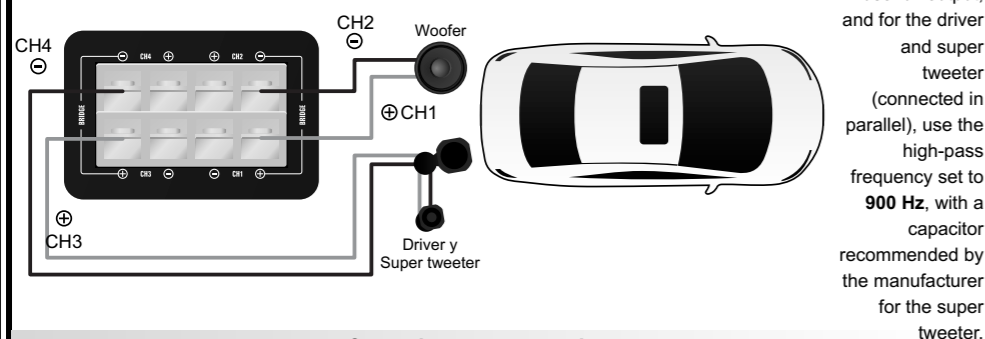


## // Recommended connection arrangements / cascade-type connection

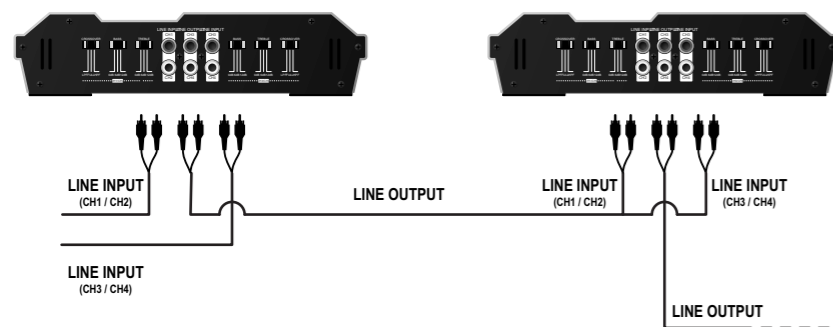
### 3 // Subwoofer (CH1/CH2 bridge) (CH3/CH4 bridge) control



### 4 // Control Trio - Woofers (Bridge CH1/CH2) y Driver/ST (Bridge CH3/CH4)



### Cascade-type connection



A cascade-type connection is made by transferring the first amplifier signal through the LINE OUTPUT to a second amplifier, using a duplicator, by connecting it to its LINE INPUTS. The quantity of amplifiers that can be connected this way depends on the distance between them, the quality of the audio signal and the quality of the signal cable being used.

## // Warranty

**WARNING:** For your guidance and the product warranty, it is important that you read and understand all instructions of this manual, remaining expressed the following terms and conditions:

1 - The manufacturer guarantees this product against any manufacturing defects for a term of twelve (12) months after the issue date of the sales invoice to the first purchaser.

**Important: In order to keep the validity of this warranty, the invoice to the first purchaser needs to be presented to the dealer.**

2 - All outside mechanical parts like: buttons, cables, chassis, knobs, switches and plastic parts are only covered by a legal guarantee of ninety (90) days after the issue date of the sales invoice to the first purchaser.

3 - When verifying any defect, the consumer shall get in contact with the nearest technical service shop according to the list provided with the product or get in contact with our factory. The product shall be examined and repaired only by authorized technicians.

4 - Durante the warranty term, defective parts or components will be replaced at the manufacturer expense while the owner of the product shall be responsible for the freight expenses.

**5 - The following hypothesis will not be covered by the warranty or will turn the warranty void:**

- a) Defects resulting from natural wearing of the product;
- b) Negligence or misuse by the installer/consumer;
- c) Defect caused by intervention of someone not qualified or not authorized by the manufacturer to install or repair the product;
- d) Defect resulting from the connection of the product to a power source of incompatible voltage;
- e) Damages caused during transport, electric discharges, floods, exposure to moisture or any other damages resulting from haphazard or major force;
- f) Broken slide controls or potentiometers;
- g) The series number or batch identification of the product are removed or changed;

6 - The manufacturer does not authorize anybody or any legal entity to take over in his name any responsibility regarding the warranty of its products other than those expressly written herein;

7 - The manufacturer reserves the right, at any time, to revise, change or discontinue the products, including the conditions described herein, without any responsibility or obligation to any technical service shop, retailers, purchasers or third-parties.

### SERIES NUMBER

This product is delivered with a nameplate placed on its rear cover, containing a series number. We recommend you to note that series number on this manual for your safety in case of robbery or for when you need to call the technical service.

SERIES NUMBER: \_\_\_\_ / \_\_\_\_\_

**NH INDÚSTRIA E COMÉRCIO LTDA**  
 ROD. BR-470, km 140, 5640 VALADA ITUUPAVA  
 89.160-000 RIO DO SUL (SC) - BRAZIL  
 PHONE: ++55 (47) 3531-8800  
 CNPJ 85776466/0001-36 - I.E.250170515  
 INDÚSTRIA BRASILEIRA - MADE IN BRAZIL



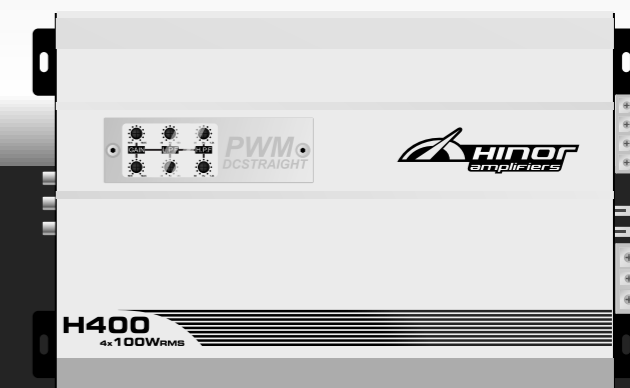
www.hinor.com.br  
 e-mail: hinor@hinor.com.br  
 Toll-free  
 0800-478002

COD : 19.810

INSTRUCTION MANUAL

# HINOR

amplifiers



# H400

## // Introduction/Recommendations

### Introduction

#### Congratulations for purchasing your HINOR amplifier!

The **H400** sound amplifier has been designed with the latest *MOSFET* technology.

The **H400** allows for connecting different types of loudspeakers to it because it is fitted with selectable active crossovers, providing your car with a superior level of audio quality.

It has 6dB y 12dB bass and treble boosters.

### Recommendations

**1 //** Make sure to read and understand the instructions of this manual before making any connection.

ANY CONNECTION TO THE AMPLIFIER INPUTS OR OUTPUTS SHALL BE MADE ONLY WHILE THE AMPLIFIER IS SWITCHED OFF;

**2 //** Carefully note the polarity of the power supply cables (The battery's positive and negative poles) and the loudspeakers, as well as the minimum impedance required by the amplifier (Z);

**3 //** It is necessary to install protective fuses against overload. The fuse shall be installed as nearer as possible to the battery and its rating shall be compatible with the amplifier ratings;

**4 //** The thickness of the power supply cables is very important to obtain both, the desired power rate from the amplifier and its safety. Therefore, use the thickness recommended in this manual.

Cables with thinner sections as the specified ones will cause power loss and will overheat the cables. In addition, the power supply cables shall be as short as possible. Connect the GND terminal directly to the battery and make a good grounding through the chassis;

**5 //** The amplifier shall be installed in a place capable of withstanding its weight, keeping it firmly tightened without vibrations and providing it with good ventilation.

**6 //** The RCA signal cable and the power supply cables shall be threaded separately from the car's original harness, such as ignition cables, electronic injection modules and start switch, etc, in order to prevent interferences;

**7 //** Use a Maxi or similar blade-type 60A main fuse at the output of the battery's positive (+) pole in order to protect the system;

**8 //** For the power supply of your amplifier, use 10 mm cables;

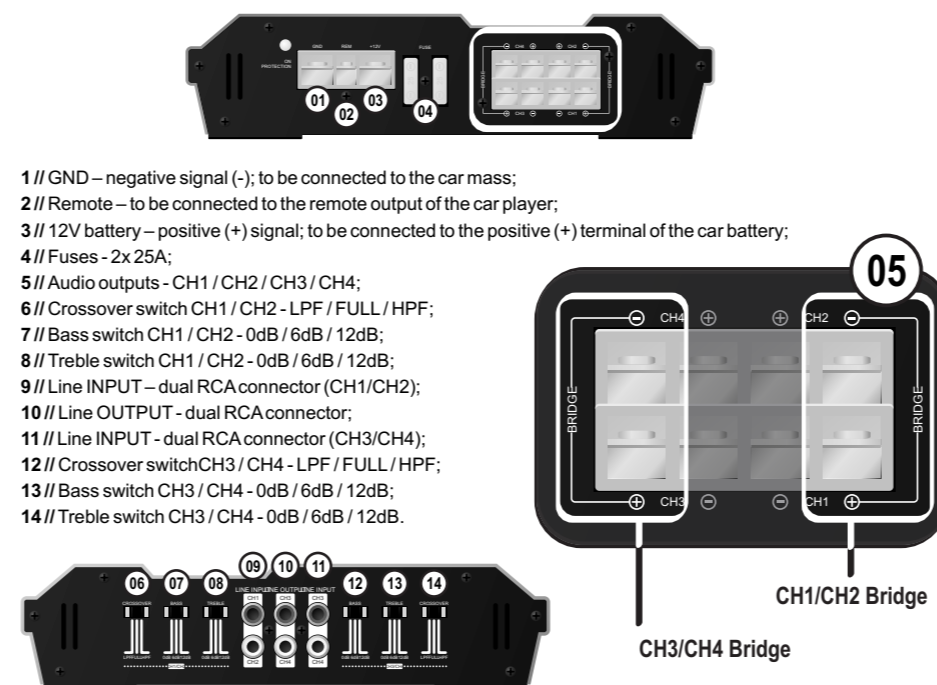
**9 //** High-power amplifiers have a higher current consumption and therefore, they require the replacement of the original car battery with another one of bigger capacity or the installation of additional batteries.

## // Specifications/Details

### Technical specifications

// Mosfet Power PWM  
// 4 stable channels @ 2 ohm  
// Output configuration (2 / 3 / 4 channels)  
// Power rate @ 13.8V: 4 x 100 Wrms @ 2 ohm / 2 x 200 Wrms @ 4 ohm bridge  
// Signal / noise ratio: >90 dB  
// Bass Boost: 0 dB / +6 dB / +12 dB  
// Treble Boost 0 dB / +6 dB / +12 dB  
// Frequency response: -3 dB: 20 Hz @ 20.000 Hz  
// HDR (Harmonic distortion rate): <0,1%  
// Input sensibility: 0,15 @ 8,00 Volts  
// Variable crossover: LPF - 40 Hz @ 150 Hz / HPF - 80 Hz @ 1.200 Hz  
// Maximum consumption at full load (sinusoidal): 50 A/h  
// Fuses: 2 x 25 A  
// Protection against reverse power supply  
// Protection against output overload, over-temperature and short-circuit.  
// Dimensions: 330 x 228 x 54 mm  
// Weight: 2,8 Kg

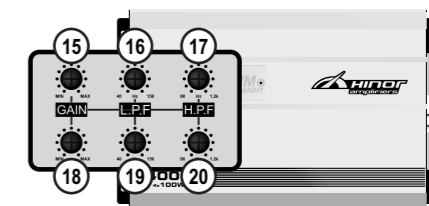
### Technical Details



- 1 //** GND – negative signal (-); to be connected to the car mass;
- 2 //** Remote – to be connected to the remote output of the car player;
- 3 //** 12V battery – positive (+) signal; to be connected to the positive (+) terminal of the car battery;
- 4 //** Fuses - 2x 25A;
- 5 //** Audio outputs - CH1 / CH2 / CH3 / CH4;
- 6 //** Crossover switch CH1 / CH2 - LPF / FULL / HPF;
- 7 //** Bass switch CH1 / CH2 - 0dB / 6dB / 12dB;
- 8 //** Treble switch CH1 / CH2 - 0dB / 6dB / 12dB;
- 9 //** Line INPUT – dual RCA connector (CH1/CH2);
- 10 //** Line OUTPUT - dual RCA connector;
- 11 //** Line INPUT - dual RCA connector (CH3/CH4);
- 12 //** Crossover switch CH3 / CH4 - LPF / FULL / HPF;
- 13 //** Bass switch CH3 / CH4 - 0dB / 6dB / 12dB;
- 14 //** Treble switch CH3 / CH4 - 0dB / 6dB / 12dB.

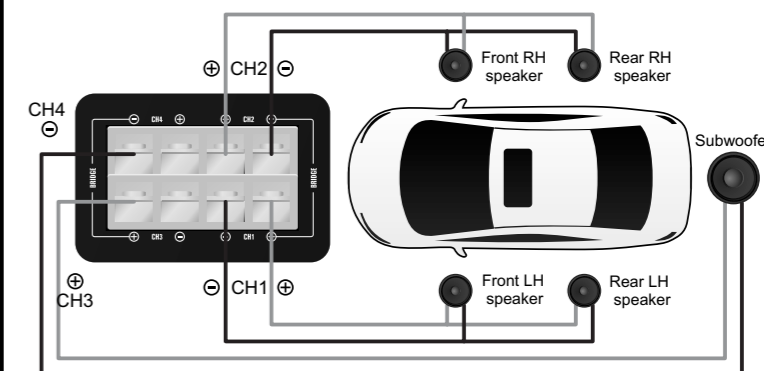
## // Technical details/recommended connection arrangements

### Technical details



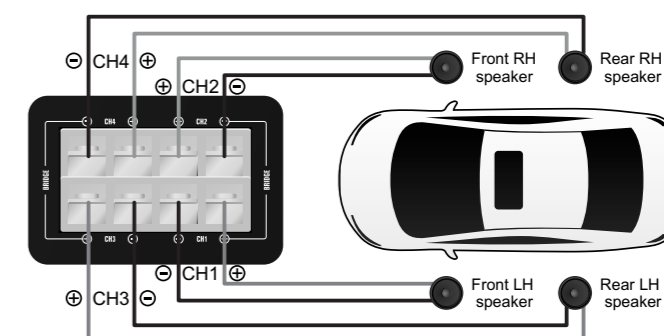
- 15 //** Gain setting - CH1 / CH2;
- 16 //** Frequency setting LPF - CH1 / CH2 (when "item 6" in LPF);
- 17 //** Frequency setting HPF - CH1 / CH2 (when "item 6" in HPF);
- 18 //** Gain setting - CH3 / CH4;
- 19 //** Frequency setting LPF - CH3 / CH4 (when "item 12" in LPF);
- 20 //** Frequency setting HPF - CH3 / CH4 (when "item 12" in HPF).

### 1 // LEFT/RIGHT (stereo) control with Subwoofer (bridge)



For the front and rear loudspeakers, use the high-pass frequency set to **80 Hz** (at least) and for the subwoofer, use the low-pass frequency set to **80 Hz** (at least).

### 2 // LEFT/RIGHT/FRONT/REAR (Stereo) control



For the front and rear loudspeakers, use the high-pass frequency set to **80 Hz** (at least).