

TECHNICAL SPECIFICATIONS

	14K2 E	11K2 D	9K2 D	7K2 E
Number of Channels:	1	1	1	1
Power WRMS (1 OHM) à 13,8V:	16.200 Watts	13.450 Watts	11.900 Watts	9.700 Watts
Power WRMS (2 OHMS) à 13,8V:	11.200 Watts	8.700 Watts	7.800 Watts	5.800 Watts
Power WRMS (4 OHMS) à 13,8V:	5.300 Watts	4.600 Watts	4.500 Watts	3.200 Watts
Power WRMS (1 OHM) à 12,6V:	14.200 Watts	11.250 Watts	9.400 Watts	7.800 Watts
Power WRMS (2 OHMS) à 12,6V:	8.050 Watts	7.000 Watts	6.400 Watts	4.800 Watts
Power WRMS (4 OHMS) à 12,6V:	4.350 Watts	4.000 Watts	3.700 Watts	2.700 Watts
Power Tension:	9 to 15V	9 to 15V	9 to 16V	9 to 16V
Frequency Response:	20Hz to 8KHz	20Hz to 8KHz	20Hz to 8KHz	20Hz to 8KHz
Crossover Low Pass:	50Hz to 8KHz	50Hz to 8KHz	50Hz to 8KHz	50Hz to 8KHz
Total Distortion Harmonic:	< 0,9%	< 0,9%	< 0,9%	< 0,9%
Signal to Noise:	> 90 dB	> 90 dB	> 90 dB	> 90 dB
Input Sensitivity:	0,2V	0,2V	0,2V	0,2V
Input Impedance:	20K OHMS	20K OHMS	20K OHMS	20K OHMS
Minimum Output Impedance:	1 OHM	1 OHM	1 OHM	1 OHM
Consumption Musical Signal (12,6V):	7,3 to 600A	6 to 550A	7 to 500A	6 to 390A
Consumption Bass Signal (12,6V):	7,3 to 1200A	6 to 1100A	7 to 1000A	6 to 780 A
Subsonic Filter:	20 to 80Hz	20 to 80Hz	20 to 80Hz	20 to 80Hz
Dimension (H x W x L) mm:	70 x 280 x 738	70 x 280 x 688	70 x 280 x 688	70 x 280 x 688
Weight:	11,7 Kg	10,4 Kg	10,4 Kg	10,4 Kg



HOW TO PROCEED IN CASE OF MALFUNCTION

DOESN'T TURN ON:

The cables are not well connected (Terminals +BATT, GND and REM). Be sure that all connections have electrical and mechanical connection. The fuses are burned or with defect. Pay attention on the values of the new fuses.

NO SOUND:

The speaker cables or RCA plugs are not correctly installed.
Verify if level control is minimal.

NO SOUND / RED LED OF PROTECTION IS BLINKING:

See **Page 04**.

Speakers or cables with defect, check all speakers and wire connections.

BAD SOUND QUALITY (Distortion):

The speakers are overloaded, diminish the level and remake the gain adjust (**see item 2**).

WEAK LOW'S:

(-) and (+) speaker cables are misplaced, speaker out of phase (**see item 4**).

MOTOR NOISE, HORN, SIGNAL, ETC...

Use suppressive ignition coils on the spark plugs.

Use a condenser on the alternator, horn and ignition.

Use the input cable away from any other cables because it's the most sensible to interference.

Make the 12V connection separately from the sound one, use a fuse 30cm away from the battery post.

Make a good ground connection on the amplifier. For this remove any paint of the point in the chassis of the car. screwing directly to the chassis then use paint to protect from rust.

Don't make a loop with GND. Avoid using several GND. Use a star connection for all the GND from a single point.

STETSOM

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digital

7K2D

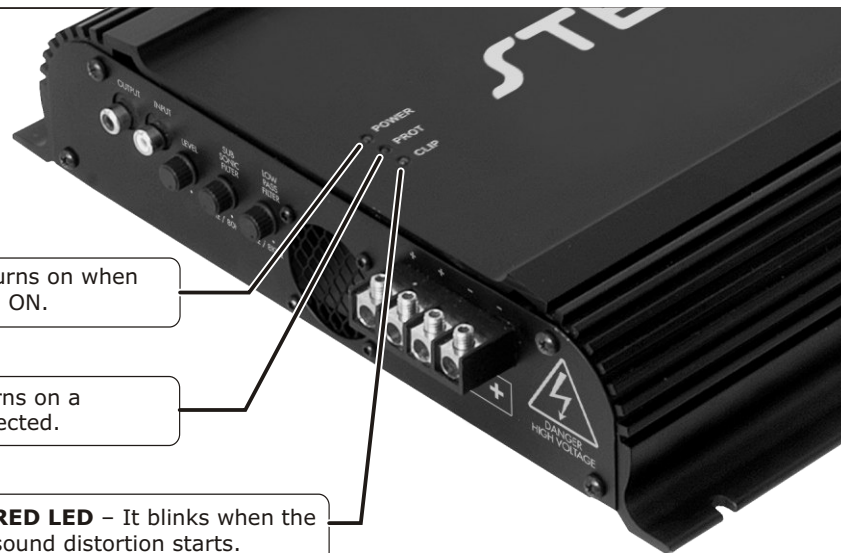
9K2D

11K2D

14K2 E

Instructions Manual

INDICATIONS LEDS







BLUE LED – turns on when the amplifier is ON.

RED LED – turns on a problem is detected.

RED LED – It blinks when the sound distortion starts.

PROBLEM DIAGNOSYS SYSTEM

In case that a problem occurs, the amplifier will turn OFF and the RED led will blink alternating with the BLUE led. Depending on the problem, the BLUE led will flash a number of times. This way will have a diagnosis following the table showed below:

BLINKS	PROBLEM	SOLUTION
1	 Short-circuit or overload in the output.	Verify if the speaker cables are properly isolated, observe the minimal impedance.
2	 Excessive temperature.	Verify if the amplifier is in a vented spot.
3	 BATT Discharged battery.	Its normal the consumption of the battery for a long period, recharge your battery.
4	 BATT Battery tension alarm. Battery with tension over 16 Volts.	Find a specialized electrician to verify the system, alternator/battery.

Obs: in case the RED led blinks (blue is off), reconnect the device, if the problem continues, look for a STETSOM authorized assistance.

INSTALLATION SPOT

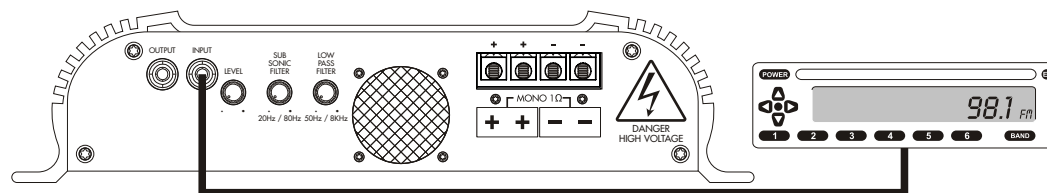
For the installation spot, choose a place that is sufficiently ventilated to guaranty the refrigeration of the amplifier.

Depending on the building of the car, you can choose either under the seat or in the trunk of the car. In either cases the installation must be done with caution so that the amplifier will perform normally.

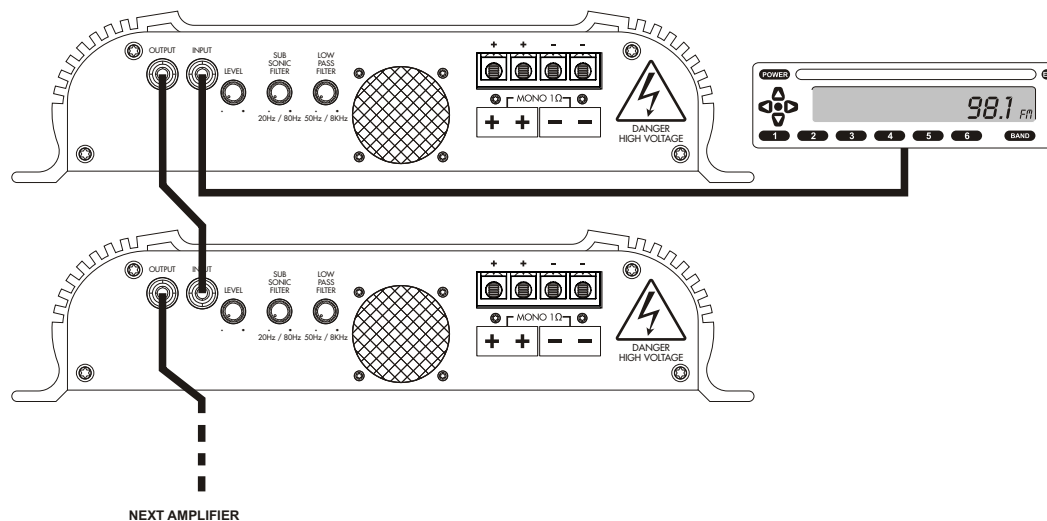
Before the installation provide a support for the amplifier, put the amplifier on the installing spot that you choose, mark the screw spots so that you can tight the amplifier firmly.

INSTALLING THE INPUT CABLES.

For the input entrance, use quality RCA cables with shield to avoid interference from the car.



INSTALATION WITH MULTIPLE AMPLIFIERS



INTRODUCTION

The Digital amplifiers from STETSOM are High Performance and specially projected for High demands of power and SPL competitions.

The RCA mono input as a SUBSONIC filter for use with woofers. Also it as an electronic filter (Low Pass Crossover) with high capability to regulate the frequencies for several types of speakers.

It as an RCA output very useful for installations with more than one amplifier (Multi Amplified System).

It as an intelligent micro processed system that manages the initialization of the protections on the amplifier.

The protection system informs the consumer about the problems thru a system of led's facilitating the solution.

One RED LED lights up when the amplifier reaches the maximum power (CLIPPING), above this volume, the levels of distortion raise considerably.

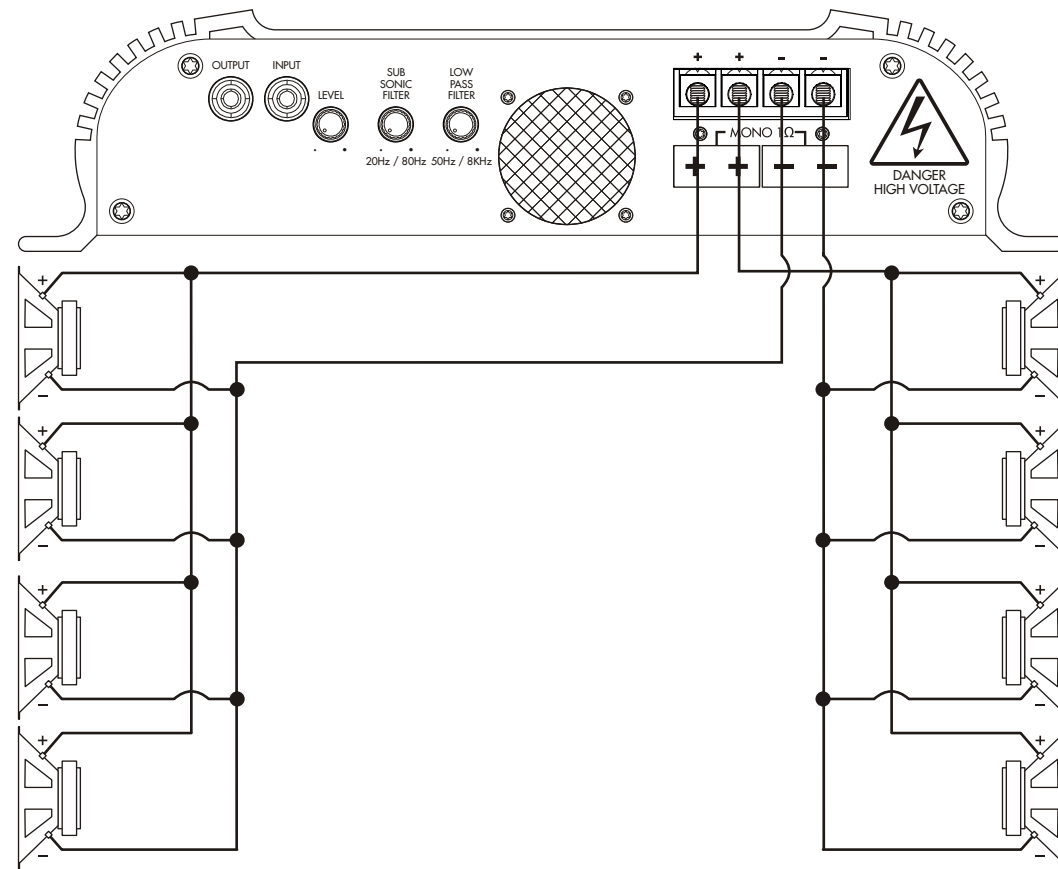
BEFORE INSTALLING

Please read this manual carefully before installing the device. The installing instructions and connections must be followed in a precise way. If necessary consult our factory.

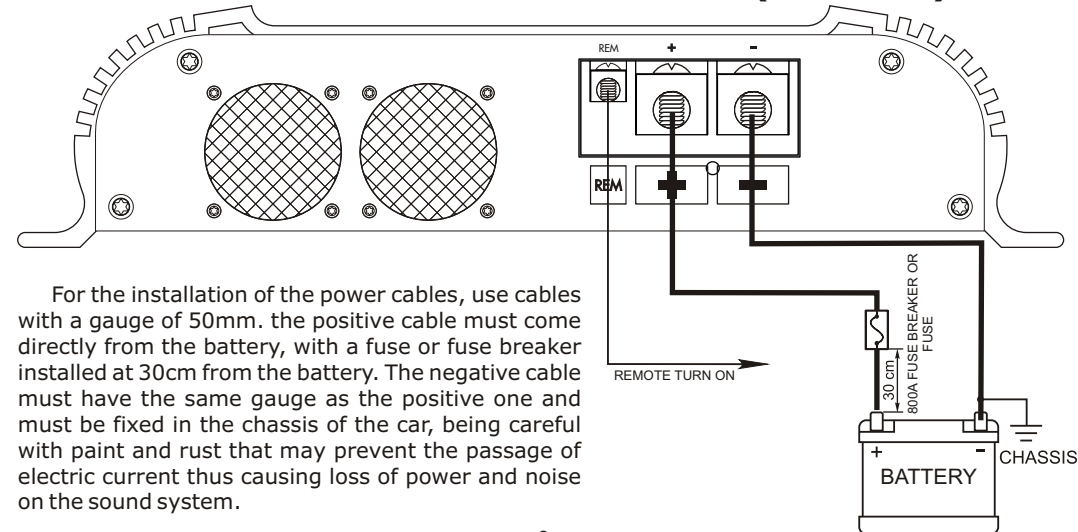
Every connection, battery , output signal for the speakers and input signal, can be made easily by screwing terminals and RCA connectors.

1. Maintain the system cables as short as possible with correct gauge cables, this way you minimize loss of Power and obtain a hi volume system.
2. For security reasons use proper cables for Speakers and Power.
3. For not damaging the cables avoid passing them trough areas with sharpen edges and metallic borders.
4. Avoid passing all cables near the ignition, electronics injection and starter key or they may cause interference.
5. Install a fuse or circuit breaker on the positive cable of the battery at 30cm away from the post.

INSTALLATION WITH 8 SPEAKERS OF 8 OHMS



POWER INPUT INSTALLATION (BATTERY)



For the installation of the power cables, use cables with a gauge of 50mm. the positive cable must come directly from the battery, with a fuse or fuse breaker installed at 30cm from the battery. The negative cable must have the same gauge as the positive one and must be fixed in the chassis of the car, being careful with paint and rust that may prevent the passage of electric current thus causing loss of power and noise on the sound system.

INSTALLATION OF THE SPEAKERS

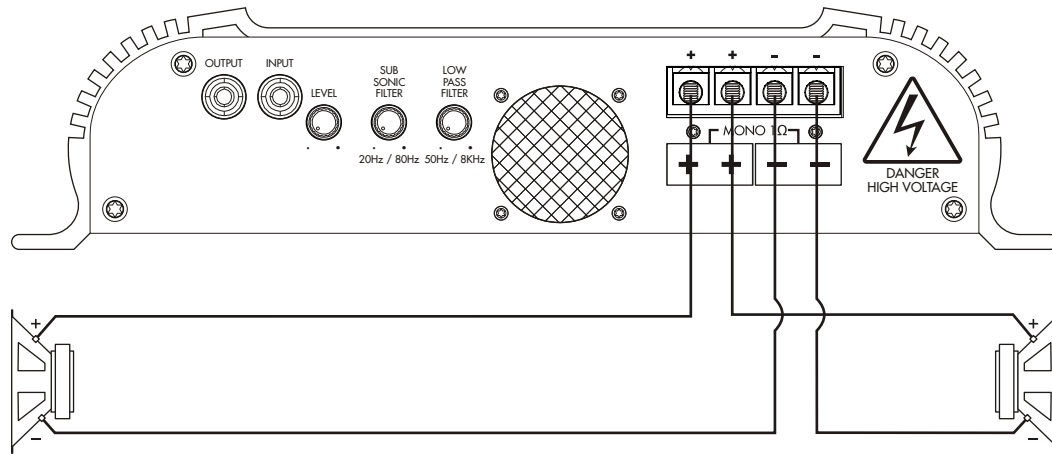
For the power installation use 70,0 mm² (14K2 D e 11K2 D) and 50,0 mm² (9K2 D e 7K2 D) cables. The positive cable must come directly from the battery, install a fuse or circuit breaker on the positive cable of the battery at 30cm away from the post.

The negative cable must be 70,0 mm² (14K2 D e 11K2 D) and 50,0 mm² (9K2 D e 7K2 D) cable also, and must be screwed to the chassis of the car, avoiding rust and paint that can prevent the correct passage of the electrical current, causing lack of Power and noise.

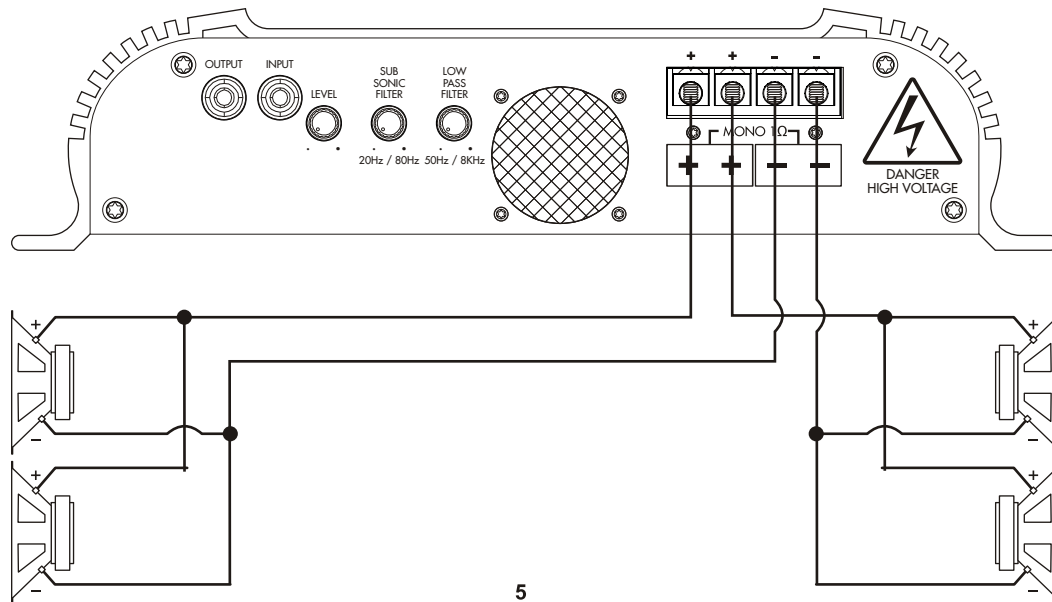
The speaker cables should be marked with negative and positive to facilitate the installation process. The cables must be at least 10mm², they must be well isolated.

Be careful with sharpen edges that may damage the cable. The minimal impedance is 2 ohms.

INSTALLATION WITH 2 SPEAKERS OF 2 OHMS



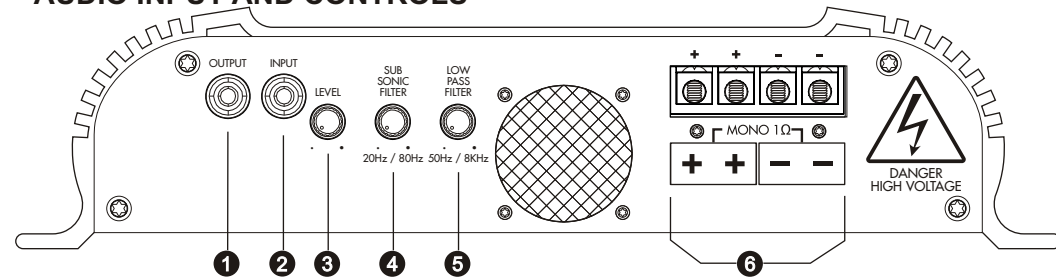
INSTALLATION WITH 4 SPEAKERS OF 4 OHMS



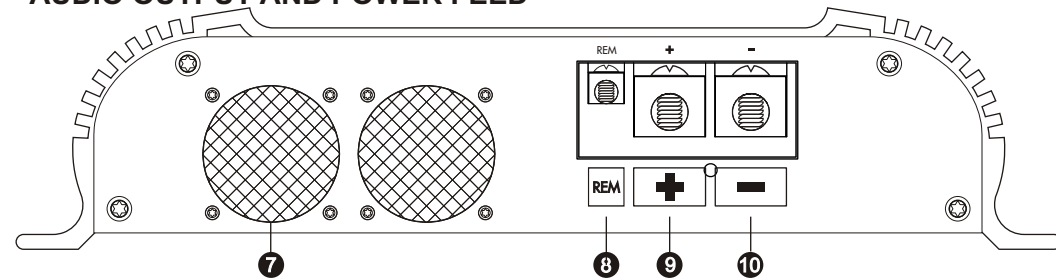
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GENERAL DESCRIPTION

AUDIO INPUT AND CONTROLS



AUDIO OUTPUT AND POWER FEED



1.OUTPUT - RCA Output: This output can be used optionally to play with another amplifier, facilitating the installations with multiple amplifiers.

2.INPUT - RCA CONNECTION: This input should receive the signal through a RCA cable that must be connected to the RCA output of the CD/MP3 player.

3.LEVEL - GAIN CONTROL: Controls the input signal that comes from the CD/MP3 player allowing a correct adjustment. For a correct use play a musical signal, put your CD/MP3 volume at 80% and the gain control at 0%, then start to increase the gain until you notice distortion, to finish return the gain a little bit.

4.SUB SONIC FILTER: Enables a cut on the low frequency sounds (subsonic`s). This filter is very useful when using woofer type speakers. In this cases the woofers can't handle subsonic sounds, and may even damage the woofers depending on the type of sound used. The setting goes from 20Hz to 80Hz.

5.LOW PASS FREQ. - FREQUENCY CUT CONTROL: This control allows you to choose the frequency cut of the channels filter (crossover) between 50Hz and 15KHz. This filter only allows the signals that are below of the frequency cut.

6.SPEAKER OUTPUT: This output is MONO. Observe that there are four posts for connection, however its not necessary to use all posts. You Just need a positive and a negative. Be careful with the correct polarity of the speakers. The minimal association permitted is 2 ohms. Use at least 8mm² cables.

7.COOLER: It helps the internal temperature of the components to below.

8.REM - REMOTE TURN-ON: Connect the REM terminal to the electrical antenna output of you CD/MP3 player. This way when you CD/MP3 player, the amplifier will automatically turn on. A 0.5mm cable is sufficient.

9.+BATT - POSITIVE FEED: Connect the post (+BATT) to the positive post of the battery (+12V) with a cable of at least 70,0 mm² (14K2 D e 11K2 D) and 50,0 mm² (9K2 D e 7K2 D). Its extremely important that a fuse or circuit breaker is used at a distance of 30cm away from the positive post of the battery.

10.GND - GROUND CONNECTION: Use a 70,0 mm² (14K2 D e 11K2 D) e 50,0 mm² (9K2 D e 7K2 D) cable. Connect the cable to the car chassis. OBS: always plug the wire GND (-) of the CD/MP3 player or other devices in the same point.

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