OWNER'S MANUAL

FOR-X

X-804

X-806

High Power Mosfet Amplifier

Congratulations on purchasing the High Speed Power Amplifier.
The amplifier has been designed using the latest electronic technology available, allowing you to produce high quality stereo reproduction in mobile applications. This system provides you with low harmonic distortion, a huge considerable amount of reserve voltage and high temperature stability.

Just enjoy the perfect sound this amplifier produces!

INSTALLATION

* Since the amplifier is sensitive to electrical and motor noise and interference from the amplifier may affect your radio reception, try to mount it at least 3 feet away from the receiver. Good locations include under a seat, in the trunk or hatch area.

* Please remember this is a high power unit which generates high electrical energy and heat. Therefore be sure to install the unit in a place with sufficient airflow, a minimum of dust and no moisture. Allow enough space around the cooling fins to permit reasonable airflow and cooling. It is important to ensure that the cooling fins of the heat sink are not against a panel or a surface preventing air circulation.

* Never mount the amplifier in a location that is subject to direct sunlight or exposed to moisture. Be sure to mount the amplifier to a strong, solid surface which will not give way under the stress of a sudden stop or accident.

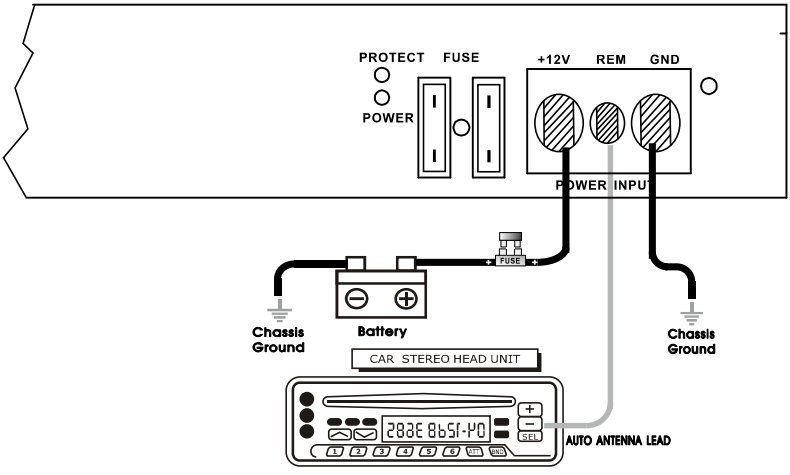
* When mounting the amplifier on a side wall, try to position it so that the slots in the cooling fins are vertical. Amplifier should not be mounted on the bottom of a rear deck with the fins facing down because the heat will radiate back up into the amplifier. Leave yourself enough room on either side of the amplifier to make all the wire connections and adjust the controls. If you have a subwoofer box in your vehicle, you can mount the amplifier on the outside of the box.

***Caution*: *If you are mounting the amplifier to the vehicle's floor, check beneath the car to be sure your screws won't puncture a brake or gas line*.**

WARNING!

Continuous exposure to sound pressure levels over 100dB may cause permanent hearing loss. High power autosound system may produce sound pressure levels well over 130dB, use common sense and practice safe sound please!

POWER CONNECTION



IMPORTANT! Before making any connections, disconnect the car's battery until the installation is completed to avoid possible damage to the electrical system

* The +12V DC power cable should be heavy gauge stranded copper cable with heavy insulation, since it draws power directly from the positive battery terminal. Select the cable gauge at least 10mm^2. And the ground cable gauge should be the same as the +12V DC.

* Connect the +12V Power terminal to the battery (+) position terminal. An in-line fuse must be installed in the +12V power cable near the battery less than 50mm. **Without one**, an accidental short circuit could pose a fire hazard and damage your amplifier. Connect the fuse holder to battery, however, do not install fuse at this time.

* Connect the GROUND Power terminal directly to the battery (-) position terminal or the car chassis. Ensure that all paint or other insulation is remove from around the hole area, and using self tapping screw, securely affix the bare wire ends to the vehicle chassis. Use as short as possible.

* Many radio's and other music sources have an output terminal for connection of the remote turn on of the power amplifier. CONNECT the output terminal to the amplifier REM control jack. If a radio doesn't have a remote turn on feature, you can connect the REM pole to external switch for positive +12V ON/OFF.

* To help minimize interference, it is best to run the power cables along the opposite side from the audio cables.

Caution*: *The power cables must be connected tightly. A loose connection may cause malfunctions or interference noise or distortion.

4 CHANNEL AMPLIFIER – FEATURES

X-804

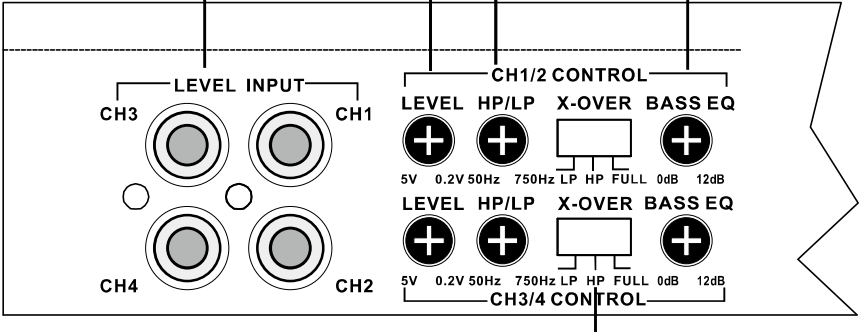
LEVEL INPUT
The LINE INPUT RCA jacks must be connected with the RCA output jacks of the headunit

LOW PASS
Variable Low Pass Filter from 50Hz to 750Hz

HIGH PASS
Variable High Pass Filter from 50Hz to 750Hz

LEVEL
Accepts line level (RCA) inputs from Min to Max

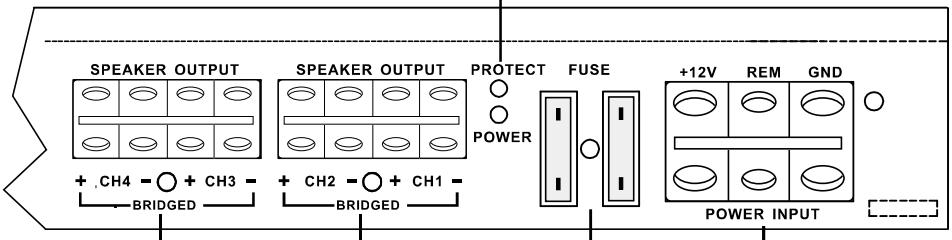
BASS EQ
Allows you to select the Bass Boost 0dB to 12dB



CROSSOVER SWITCH
Routes output of the full range (FULL) , or a low pass (LPF), or the output of the high pass (HPF) filter to the internal power amplifier

POWER ON LED
Lights up when the amplifier is energized indicating the unit is on

PROTECT LED
Lights indicating the amplifier has gone into a protection mode



SPEAKER OUTPUT TERMINALS

POWER SUPPLY TERMINALS

FUSE
Protects both this amplifier and the automobile electrical system from short circuit conditions

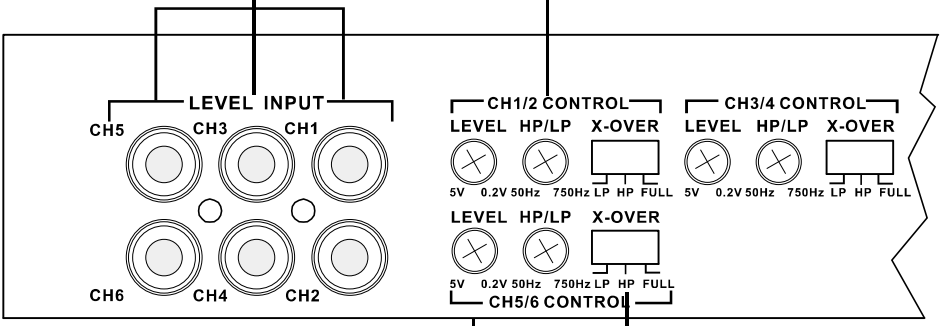
6CHANNEL AMPLIFIER – FEATURES

X-806

LOW PASS
Variable Low Pass Filter from 50Hz to 750Hz

HIGH PASS
Variable High Pass Filter from 50Hz to 750Hz

LINE INPUT
The LINE INPUT RCA jacks must be connected with the RCA output jacks of the headunit



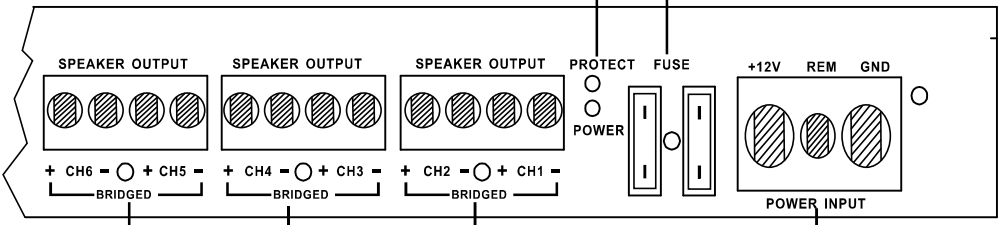
INPUT LEVEL
Accepts line level(RCA)inputs from 0.2v to 5V

CROSSOVER SWITCH
Routes output of the full range (FULL) , or a low pass (LPF), or the output of the high pass (HPF) filter to the internal power amplifier

POWER ON LED
Lights up when the amplifier is energized indicating the unit is on

PROTECT LED
Lights indicating the amplifier has gone into a protection mode

FUSE
Protects both this amplifier and the automobile electrical system from short circuit conditions



SPEAKER OUTPUT TERMINALS

POWER SUPPLY TERMINALS

4 CHANNEL AMPLIFIER – APPLICATIONS

INPUT CONNECTIONS

* This amplifier has RCA connections for low level inputs. Low level signal is carried through RCA cables. it is preferred to use low level inputs to the amplifier if the head unit is equipped with the low level outputs.

SPEAKER OUTPUT CONNECTIONS

You do not need to make any adjustment for the input connection of amplifier before you connect the speaker output.

* Connect right and left speaker wire to corresponding speaker output terminals of the amplifier.

* Be sure to have the positive wire from the speaker to the positive speaker terminal of the amplifier and the negative wire from the speaker must connect with the speaker terminal of the amplifier. Reversing any of these connections will result in the speaker cones moving out of phase which causes bass cancellation.

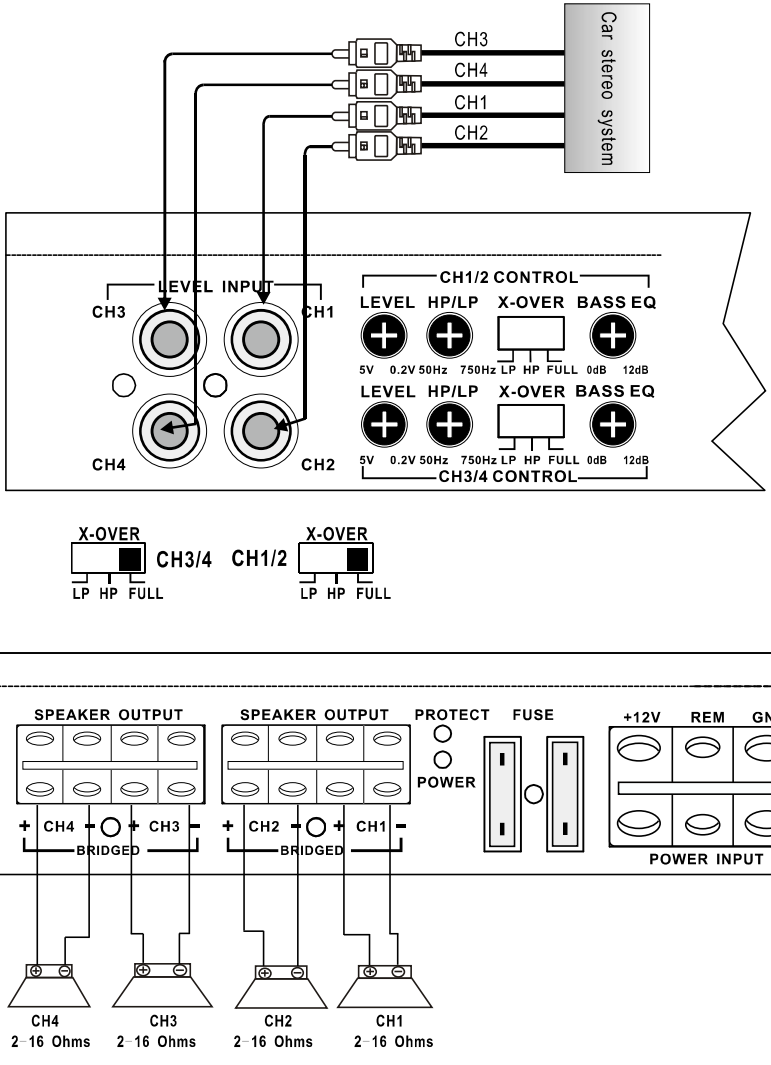
LEVEL CONTROLS

Turn the VOLUME control on the amplifier to Min initially.
Once the initial power sequence has been performed, set the CD/RADIO volume control to roughly 80% of full. Insert a CD or tune to a radio station and slowly turn up the amplifier VOLUME control until you hear some distortion, and then back it off for clean sound.

4 CHANNEL AMPLIFIER – APPLICATIONS

X-804

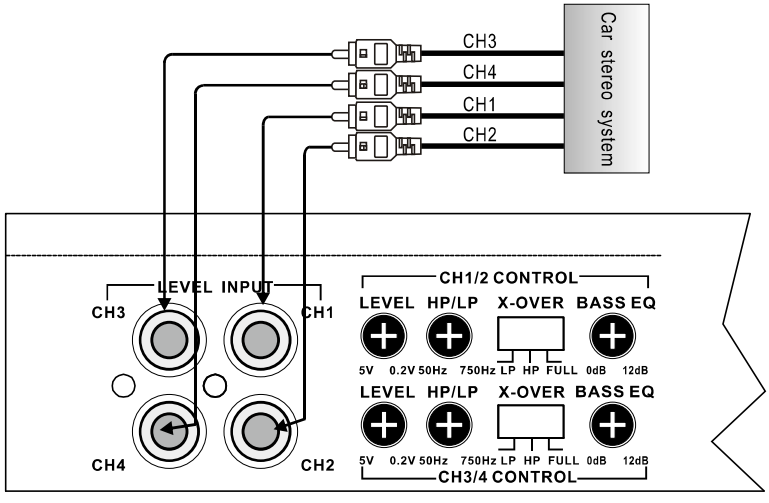
4-CHANNEL MODE

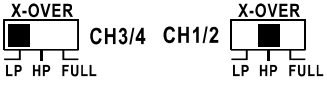


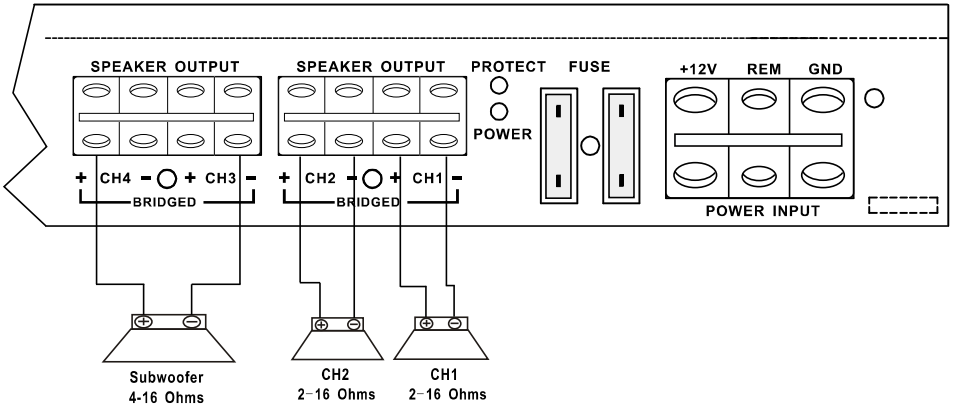
4 CHANNEL AMPLIFIER – APPLICATIONS

X-804

3-CHANNEL MODE



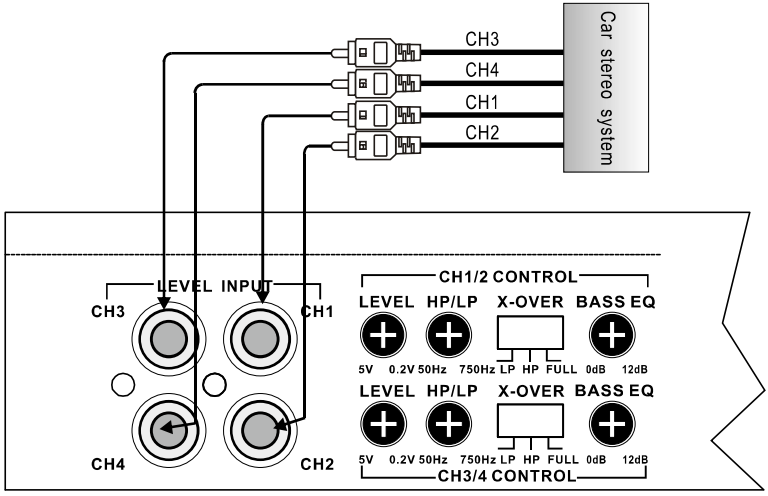


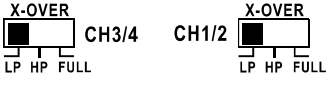


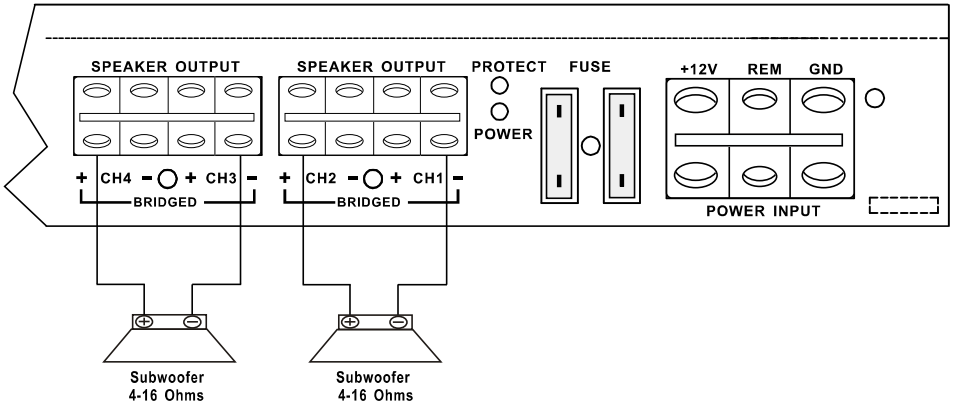
4 CHANNEL AMPLIFIER – APPLICATIONS

X-804

2-CHANNEL MODE







6 CHANNEL AMPLIFIER – APPLICATIONS

INPUT CONNECTIONS

* This amplifier has RCA connections for low level inputs. Low level signal is carried through RCA cables. it is preferred to use low level inputs to the amplifier if the head unit is equipped with the low level outputs.

SPEAKER OUTPUT CONNECTIONS

You do not need to make any adjustment for the input connection of amplifier before you connect the speaker output.

* Connect subwoofer wire to corresponding speaker output terminals of the amplifier.

* Be sure to have the positive wire from the speaker to the positive speaker terminal of the amplifier and the negative wire from the speaker must connect with the speaker terminal of the amplifier. Reversing any of these connections will result in the speaker cones moving out of phase which causes bass cancellation.

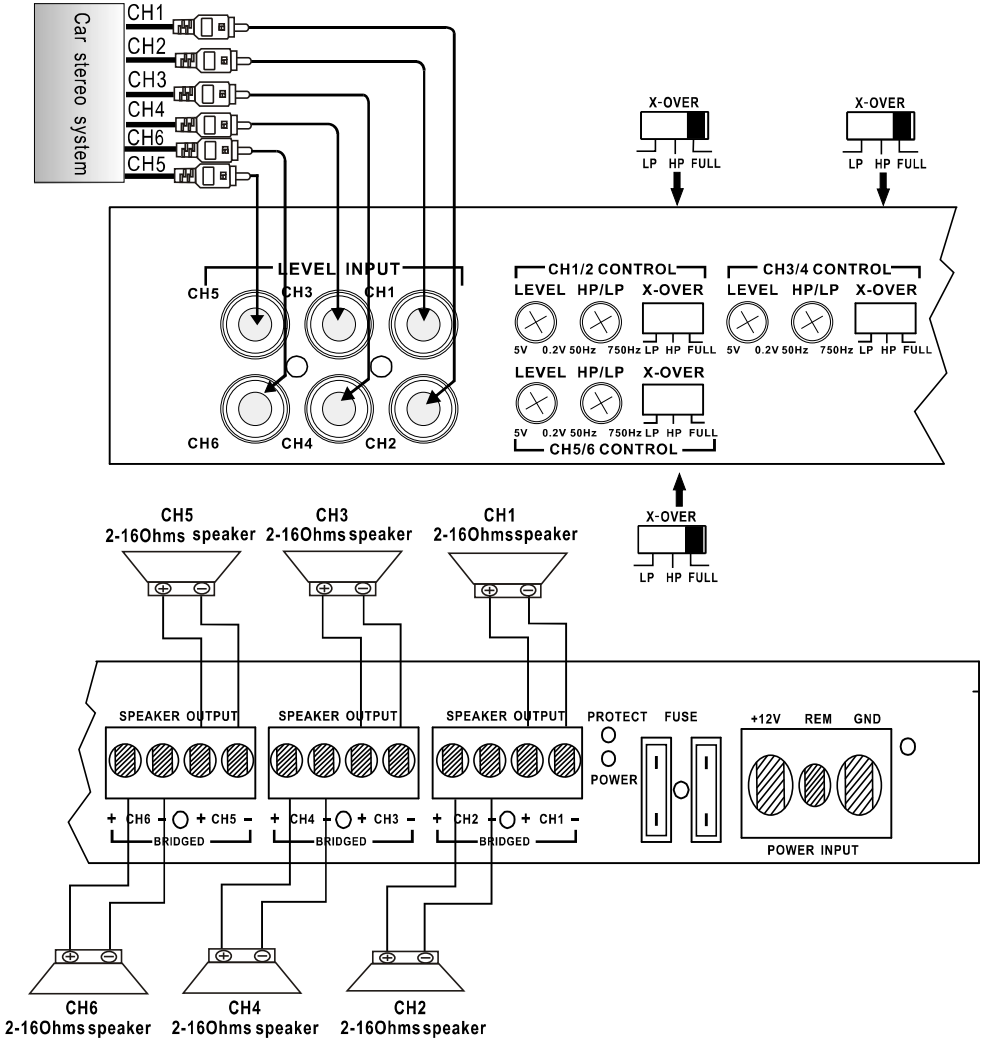
LEVEL CONTROLS

Turn the VOLUME control on the amplifier to Min initially.
Once the initial power sequence has been performed, set the CD/RADIO volume control to roughly 80% of full. Insert a CD or tune to a radio station and slowly turn up the amplifier VOLUME control until you hear some distortion, and then back it off for clean sound.

6CHANNEL AMPLIFIER – APPLICATIONS

X-806

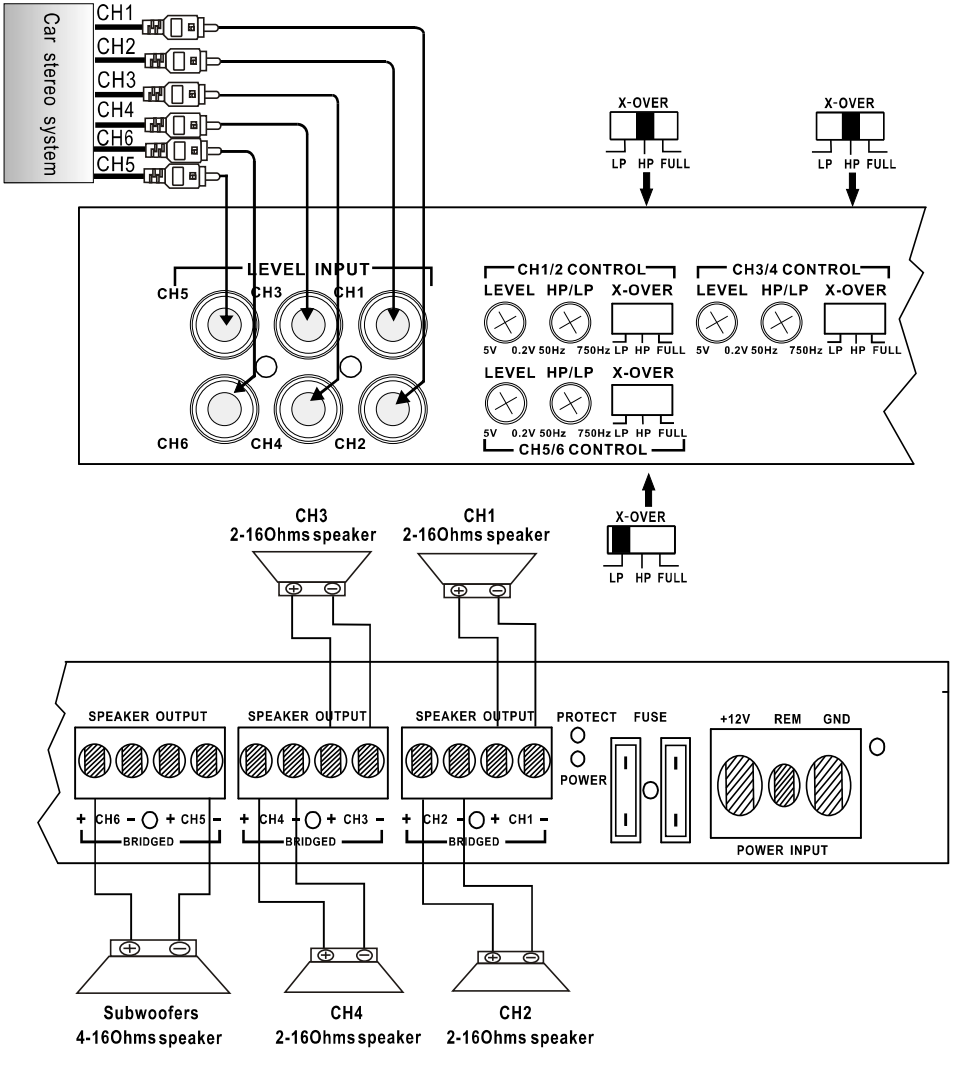
6-CHANNEL MODE



6CHANNEL AMPLIFIER – APPLICATIONS

X-806

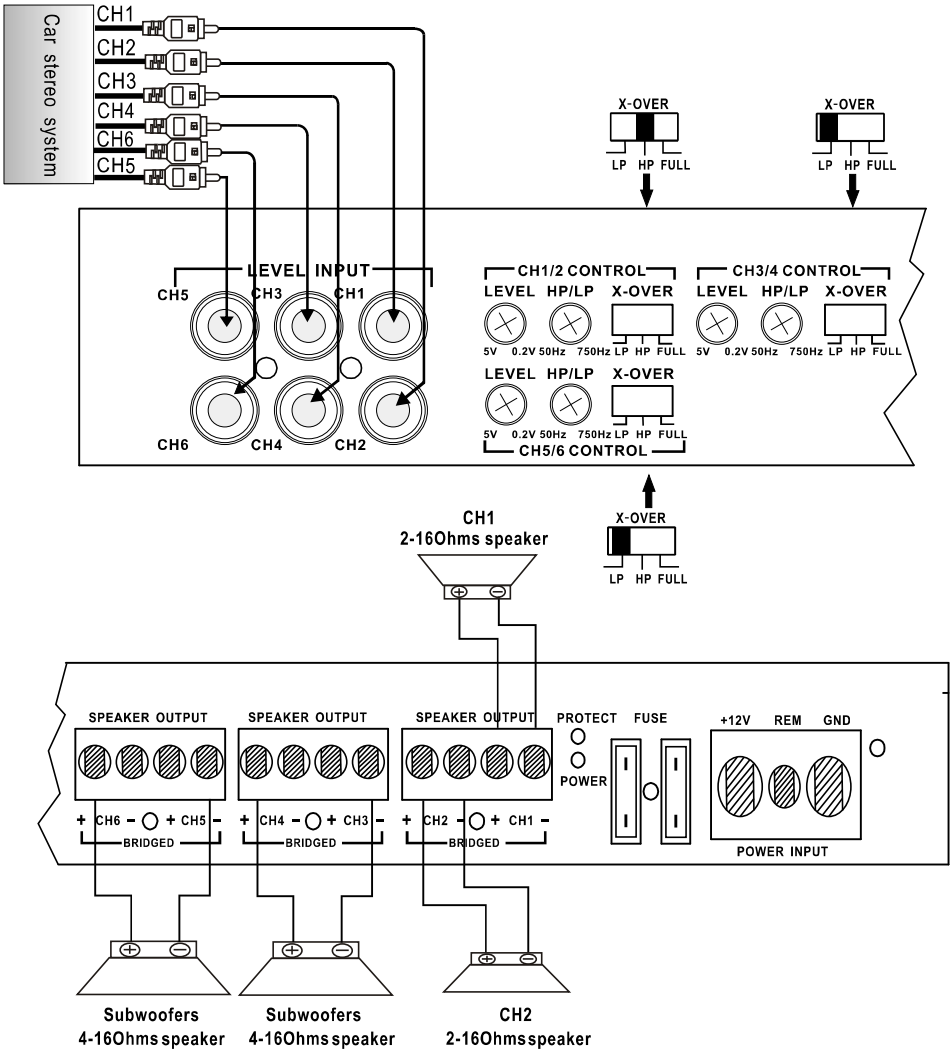
5-CHANNEL MODE



6CHANNEL AMPLIFIER – APPLICATIONS

X-806

4-CHANNEL MODE



Specifications

	X-804	X-806
Output Power Rating @ 4 Ohms	70Wx4	70Wx6
@ 2 Ohms	105Wx4	105Wx6
@ 1 Ohms	—	—
Bridged @ 4 Ohms	150Wx2	150Wx3
Frequency Response	20Hz~20KHz	20Hz~20KHz
Input Sensitivity	0.2～5.0V	0.2～5.0V
Signal To Noise Ratio	>100dB	>100dB
THD&Noise	<0.1%	<0.1%
Low Pass Cross Frequency	50Hz-750Hz	50Hz-750Hz
High Pass Cross Frequency	50Hz-750Hz	50Hz-750Hz
Subsonic Filter	—	—
Bass EQ	0dB-12dB@45Hz	—
Speaker Impedance	2～16 Ω	2～16 Ω
Fuse Size	2x35A	2x40A
Dimensions (L×H×W) mm	296x42x147	371x42x147

*All specifications subject to change without notice