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VGT-2010 VGT-2610 VGT-4110 VGT-1500D VGT-3000D



AMERICAN CRAFTED PERFORMANCE

Owner's Manual

www.lanzar.com

congratulations...

Congratulations on your purchase of a Lanzar VECTOR series amplifier. You have purchased a quality product designed and engineered to give you many years of uncompromised musical service. VECTOR series amplifiers are designed with the latest technology available, which provides headroom for even the most demanding peaks and dynamic ranges found on modern CD's and recordings.

Lanzar

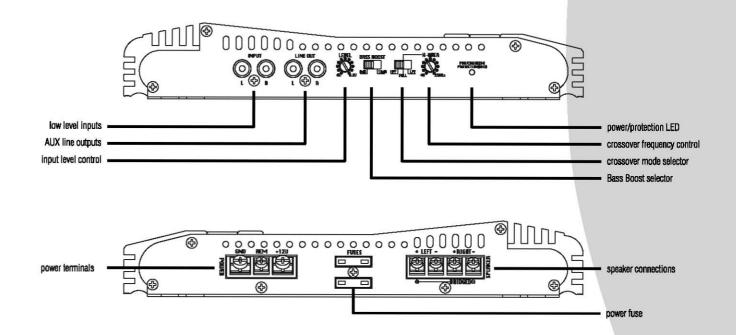
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2 ch amp VCT-2010

crossover made selector	When used with normal, full range system, set this switch to "FULL".	output power @ 14.Av DC, 1KHz	VCT-2010
	If you wish to use the internal crossover to power a driver or specific	RMS Power @ 4 Ohms	35 Watts x 2
	frequency range, use the "LPF" or "HPF" FOR the "LOWPASS" OR	THD @ 4 Ohras	45 Watts x 2
input level controls	HIGHPASS" settings. Enables the matching of input levels to the output levels from head unit	RMS Power @ 2 Ohous	70 Watts x 2
importional controls	(or other signal source). The input sensitivity of adjustment ranges from	THD @ 2 Ohms	100 Watts x 2
	6V to 200mV.	Maximum Power Output	
crossover frequency control	When crossover mode selector is in HIGHPASS mode, this control sets	Bridged Pewer at 4 Output	
	the lower frequency limit for audio program sent to the speakers.		15 Hz-30 KHz
	When crossover mode selector is in LOWPASS mode, this control sets	frequency response	13 NZ-30 NNZ
	the upper frequency limit for audio program sent to the speakers.	input impedance	101/01
	The crossover is continuously variable adjustment from 40 to 250 Hz.	low level inputs	10K Ohms
bass heest selector	This selector switch permits the bass level an increase of 18dB.	iaput sensitivity	
low level input	This amp features RCA type jacks for high impedance input.	low level inputs	
high level input	Use these with car stereo output which uses RCA type connector cables. If your car stereo jacks are not RCA type output, use the high-low level	S/H ration	>95dB —
ingii iovei nqui	input adaptor to connect the speaker output leads of carstereo and the	channel separation	>65dB
	RCA input jacks of amp.	crossover filters	
AUX line outputs	This amp features RCA jacks for AUX line outputs.	low Pass	40 Hz-250 Hz
	Use these for unlimited system expansion to the next VECTOR.	high Pass	40 Hz-250 Hz
power LED	This indicator is illuminated in GREEN when power is applied.	bass boost	0/+18dB
pretection LED	This indicator is illuminated in RED when the built-in protection circuitry	matching speaker impedance	2,
A	is actirated.	sterea mode	2-4 Ohms
pawer fuse	The fuse protects the amplifier and your car's electrical system from short circuit conditions.	bridged mode	4-8 Ohras —
anwar terminole	Use these connectors to deliver power, ground, and remote turn-on control		
power tolland	to the amplifier.		14.4V DC Neg. Ground (10.5-16V)
speaker connectors	These terminals are to guarantee high conductivity and minimum signal loss	dimensions (W x H x L)	14.4V DC Neg. Ground (10.5-10V)
		SKNOOSIOOS [M W H V P)	270 4 45 2 4 100
		100	270 x 45.2 x 190
		Inches	10.63 x 1.78 x 7.48
100			

features and controls 2 ch amp VCT-2010

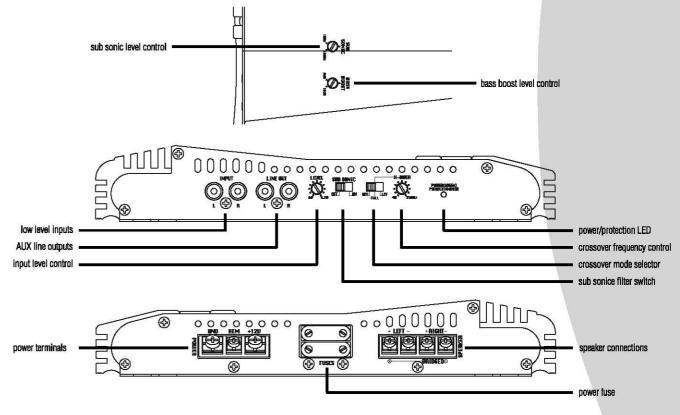


2 ch amp VCT-2610

Crossover mode selecter	when used with normal, tull range system, set this switch to "FULL".	output power @ 14.44 DC, 1KHz	VCT-2610
	If you wish to use the internal crossover to power a driver or specific	RMS Power @ 4 Ohms	300 Watts x 2
	frequency range, use the "LPF" or "HPF" FOR the "LOWPASS" OR	THD @ 4 Chas	450 Watts x 2
	HIGHPASS' settings.	RMS Power @ 2 Ohms	600 Watts x 2
Input level controls	Enables the matching of input levels to the output levels from head unit	THD @ 2 Ohms	900 Watts x 2
	(or other signal source). The input sensitivity of adjustment ranges from 6V to 200mV.	Maximum Power Output	6000 Watts
crossover frequency central	When crossover mode selector is in HIGHPASS mode, this control sets		
Crossova including condu	the lower frequency limit for audio program sent to the speakers.	Bridged Power at 4 Output	
	When crossover made selector is in LOWPASS made, this control sets	frequency response	——————————————————————————————————————
	the upper frequency limit for audio program sent to the speakers.	input impedance	
	The crossover is continuously variable adjustment from 40 to 250 Hz.	low level inputs	————— 10K Ohms ————
bass boost level centrel	This control permits adjustment of the bass level up to an increase of	input sensitivity	
	approximately up to 18dB.	low level legats	200mV~6V Adjustable
sub sonic centrel	When the sub sonic selector switch is in "ON" mode, this filter control	S/W ration	>95dB
2 10 100 0	permits continuously variable adjustment from 10 to 100Hz.	channel separation	>65dB
low level input	This amp features RCA type jacks for high impedance input.	crossover filters	7 0000
high level langt	Use these with car stereo output which uses RCA type connector cables. If your car stereo jacks are not RCA type output, use the high-low level	low Pass	40 Hz-250 Hz
uida iesei iahar	input adaptor to connect the speaker output leads of car stereo and the	high Pass	
	RCA input jacks of amp.	hacs boost	
AUX line autputs	This amp features RCA jacks for AUX line outputs.		
	Use these for unlimited system expansion to the next VECTOR.	sab sonic filter	10-100 Hz
power LED	This indicator is illuminated in GREEN when power is applied.	matching speaker impedance	0.40
protection LED	This indicator is illuminated in RED when the built-in protection circuitry	stereo mode	2-4 Ohms
//	is actirated.	bridged mode	
power fess	The fuse protects the amplifier and your car's electrical system from short	maximum current draw	60A x 2
	circuit conditions.	power supply voltage	14.4V DC Neg. Ground (10.5-16V)
power terminals	Use these connectors to deliver power, ground, and remote turn-on control to the amplifier.	dimensions (W x H x L)	
speaker connectors	These terminals are to guarantee high conductivity and minimum signal los		270 x 45.2 x 558
appealor connecters	those withings are to guarantee ingli conductivity and illiminion signal los	Inches	10 63 x 1 78 x 21 97

features and controls

2 ch amp VCT-2610

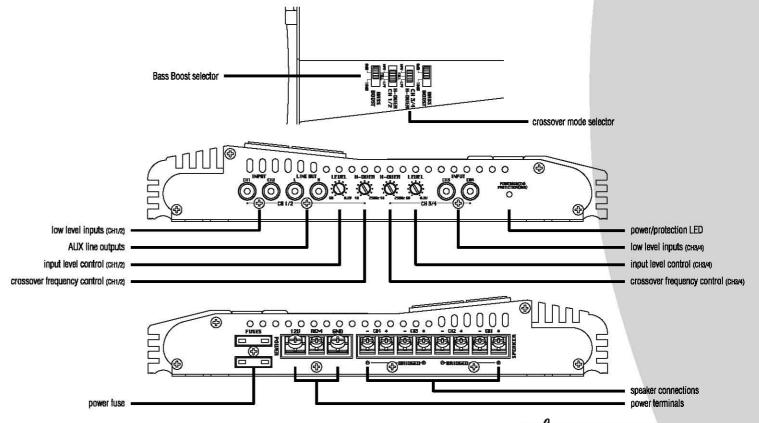


4 ch amp VCT-4110

crossover mode selecter Imput level centrels	When used with normal, full range system, set this switch to "FULL". If you wish to use the internal crossover to power a driver or specific frequency range, use the "LPF'or "HPF" FOR the "LOWPASS" OR HIGHPASS" satings. Enables the matching of input levels to the output levels from head unit (or other signal source). The input sensitivity of adjustment ranges from 6V to 200mV.	output power @ 14.Av DC, 1KHz RMS Power @ 4 Ohms THD @ 4 Ohms RMS Power @ 2 Ohms THD @ 2 Ohms Maximum Power Output	75 Watts x 4 100 Watts x 4 150 Watts x 4
crossover frequency centrel	When crossover mode selector is in HIGHPASS mode, this control sets the lower frequency limit for audio program sent to the speakers. When crossover mode selector is in LOWPASS mode, this control sets the upper frequency limit for audio program sent to the speakers.	Bridged Power at 4 Output frequency response input impedance	15 Hz-30 Hz
bass boost level central	The crossover is continuously variable adjustment from 40 to 250 Hz. This control permits adjustment of the bass level up to an increase of	low level inputs input sensitivity	
low level input	approximately up to 18dB. This amp features RCA type jacks for high impedance input.	low level inputs : S/W ration :	200mV-6V Adjustable
high level input	Use these with car stereo output which uses RCA type connector cables. If your car stereo jacks are not RCA type output, use the high-low level input adaptor to connect the speaker output leads of car stereo and the	channel separation - crossover filters	>65dB
AUX line entents	RCA input jacks of amp. This amp features RCA jacks for AUX line outputs.	low Pass high Pass	
power LED	Use these for unlimited system expansion to the next VECTOR. This indicator is illuminated in GREEN when power is applied.	matching speaker impedance	2-16 Ohms
protection LED	This indicator is illuminated in RED when the built-in protection circuitry is activated.	stereo mede bridged mode	4-16 Ohms
power fuse	The fuse protects the amplifier and your car's electrical system from short circuit conditions.	maximum current draw power supply voltage	30A x 2 14.4V DC Neg. Ground (10.5-16V)
power terminals	Use these connectors to deliver power, ground, and remote turn-on control to the amplifier.	dimensions (W x H x L)	270 x 45.2 x 356
speaker connectors	These terminals are to guarantee high conductivity and minimum signal los	s. Bun inches	10.63 x 1.78 x 14.02
		40	

features and controls

4 ch amp VCT-4110



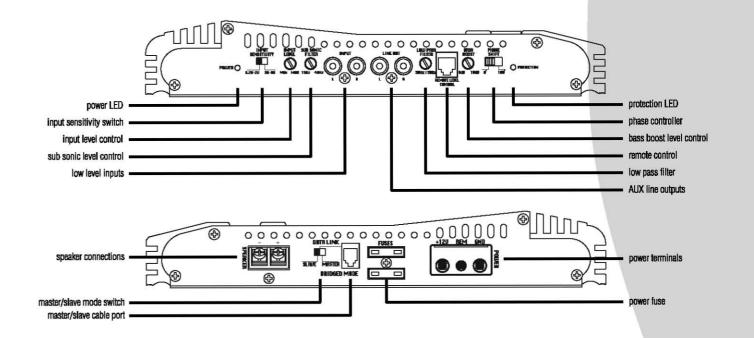
Input level controls Enables the matching of input levels to the output levels from head unit output power @ 14.4v DC, 1KHz VCT-1500B

I ch amp VCT-I500D

	- managed - managed of managed and an arranged of the managed of t	Anthus haunt o tatas nal ture	10, 10002
	(or other signal source).	RMS Power @ 4 Ohms	300 Watts x 1
bass boost level centrel	This control permits adjustment of the bass level up to an increase of	THD @ 4 Oheas	450 Watts x 1
	approximately up to 18dB.	RMS Power @ 2 Ohms	7.01 (2740.00 (277-127)) 3.4
sub sonic centrel			650 Watts x 1
low level input			
	Use these with car stereo output which uses RCA type connector cables.	RMS Power @ 1 Chass	
Input sansitivity	The input sensitivity of adjustment ranges from 8V to 200mV.	THD @ 1 Olums	1000 Watts x 1
low pass filter	Variable adjustment from 50 to 150Hz.	Maximum Power Output	1500 Watts x 1
remote centrel	Adjust the low pass signal via the enclosed remote control.	frequency response	15 Hz-150 Hz
phase centriler	Shift allows 0 degrees 180 degrees.	Input Impedance	
AUX line sutputs	This amp features RCA jacks or AUX line outputs. Use these for unlimited system expansion to the next VECTOR.	low level inputs	10K Ohms
power LED	This indicator is illuminated in GREEN when power is applied.	input sonsitivity	
protection LED			
protection and	is activated.		200mV~8V Adjustable
master/slave cable port			>95dB
master/slave mode switch	In the SLAVE-Mode the amplifier works as a SLAVE amp, this means	channel separation	>65dB
	only the audiosignal of the MASTER amp will be amplified.	crossover filters	
	All controllers on the SLAVE Amp are without function and will be assumed	law Pass	50 Hz-150 Hz
	by the MASTER amp.	hass boost	
	In the MASTER-Mode (Low Pass mode)you are able to limit the frequencie	s eah eanic filler	15-40 Hz
	to above with the LOW PASS controller. All controllers are active.	matching speaker impedance	10 10 12
power fuse	The fuse protects the amplifier and your car's electrical system from short		2-8 Ohms
	circuit conditions.	stereo mode	
power terminals			1-8 Ohms
	to the amplifier.	maximum current draw	
speaker connectors	These terminals are to guarantee high conductivity and minimum signal los	s. power supply veltage	14.4V DC Neg. Ground (10.5-16V)
		dimensions (W x H x L)	
		, pop	270 x 45.2 x 308
	/	Inches	10.63 x 1.78 x 12.13
		1819-192-9	10.00 A 1.70 A 12.10

features and controls

I ch amp VCT-I500D



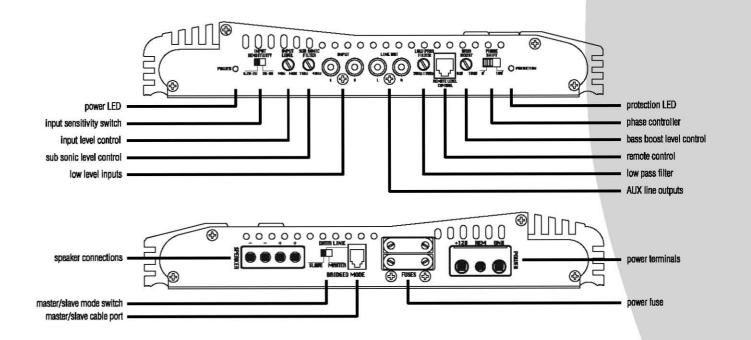
Input level controls Enables the matching of input levels to the output levels from head unit output nower @ 14.4v DG. 1KHz VCT-3000B

I ch amp VCT-3000D

	- '''' [[[[[[[[[[[[[[[[[ompac ponus o i iii ooj imm	
	(or other signal source).	RMS Power @ 4 Ohms	500 Watts x 1
bass boost level centrel	This control permits adjustment of the bass level up to an increase of	THD @ 4 Ches	650 Watts x 1
	approximately up to 18dB.	RMS Power @ 2 Chass	(CAT 87400 A) 11 12 14 14
sub sonic central	Variable adjustment from 15 to 40Hz.		850 Watts x 1
low level laput	This amp features RCA type jacks for high impedance input.		
	Use these with car stereo output which uses RCA type connector cables.	RMS Power @ 1 Dhass	
Input sansitivity	The input sensitivity of adjustment ranges from 8V to 200mV.	THD @ 1 Olums	
low pass filter	Variable adjustment from 50 to 150Hz.	Maximum Power Output	3000 Watts x 1
remote central phase centriler	Adjust the low pass signal via the enclosed remote control. Shift allows 0 degrees 180 degrees.	frequency response	15 Hz-150 Hz
AUX line entents	This amp features RCA jacks or AUX line outputs.	lugat Impedance	
Vov IIIIo earhers	Use these for unlimited system expansion to the next VECTOR.	low level inputs	
power LED	This indicator is illuminated in GREEN when power is applied.	Input sensitivity	
protection LED	This indicator is illuminated in RED when the built-in protection circuitry		200mV~8V Adjustable
	is actirated.		
master/slave cable port	MASTER/SLAVE signal cable.		>95dB
saster/slave mode switch	In the SLAVE-Mode the amplifier works as a SLAVE amp, this means	channel separation	>65dB
	only the audiosignal of the MASTER amp will be amplified.	cressover filters	
	All controllers on the SLAVE Amp are without function and will be assumed	low Pass	50 Hz-150 Hz
	by the MASTER amp.		0 ~ +18dB
	In the MASTER-Mode (Low Pass mode)you are able to limit the frequencie	sab sealc filter	
	to above with the LOW PASS controller. All controllers are active.	matching speaker impedance	
power fase	The fuse protects the amplifier and your car's electrical system from short	9 1	2-8 Ohms
power terminals	circuit conditions. Use these connectors to deliver power, ground, and remote turn-on control		
power carminates	to the amplifier.	maximum current draw	
speaker connectors	These terminals are to guarantee high conductivity and minimum signal los		
spondi sametuis	11030 terrimas are to guarance man conductivity and riminion signal ios	s. power supply voltage dimensions (W x H x L)	14.4V DC Neg. Ground (10.5-16V)
		88	270 x 45.2 x 360
		Inches	10.63 x 1.78 x 14.17

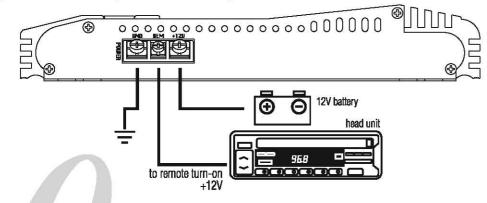
features and controls

I ch amp VCT-3000D

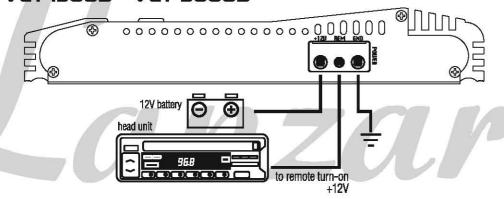


electrical connections

VCT-2010 • VCT-2610 • VCT-4110

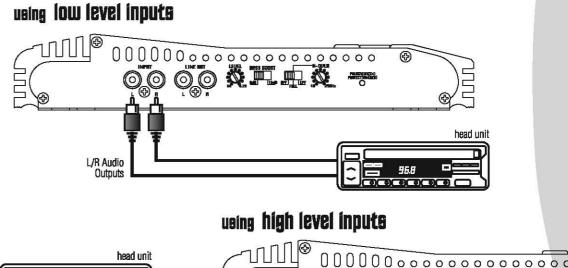


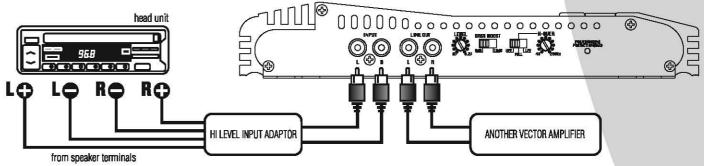
VCT-I500D • VCT-3000D



stereo input connections

2 ch amp • VCT-2010

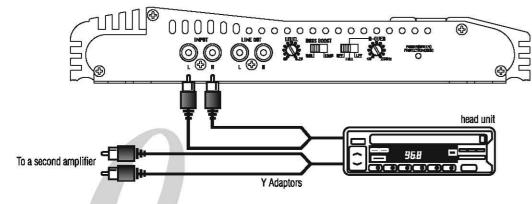




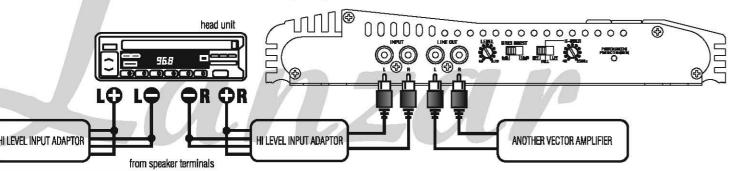
mono input connections

2 ch amp • VCT-2010

using low level inputs



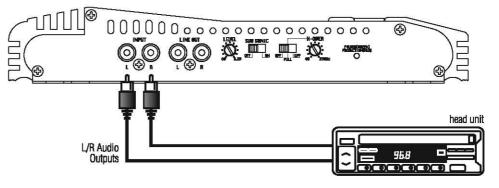
using high level inputs



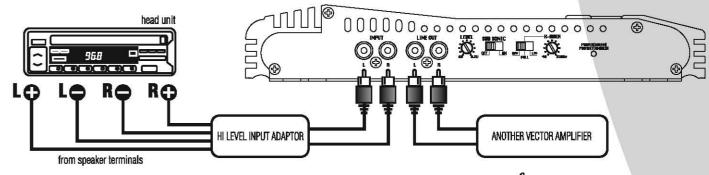
stereo input connections

2 ch amp · VCT-2610

using low level inputs



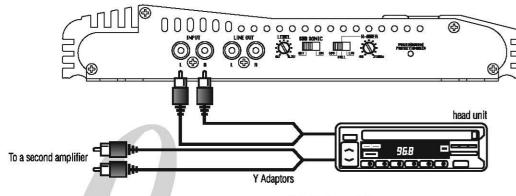
using high level inputs



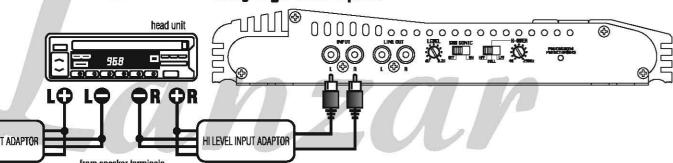
mono input connections

2 ch amp • VCT-2610

using low level inputs

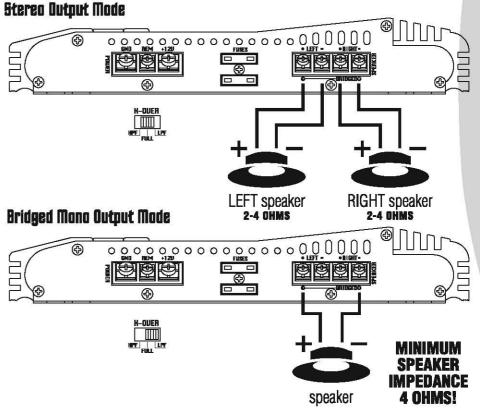


using high level inputs



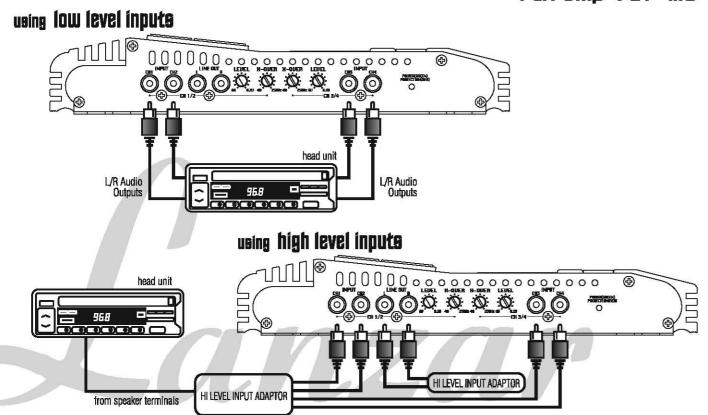
speaker connections

2 ch amp · VCT-2010 · VCT-2610

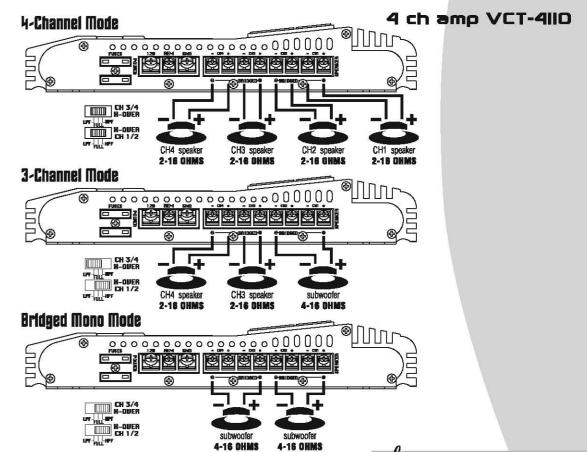


input connections

4 ch amp VCT-4110

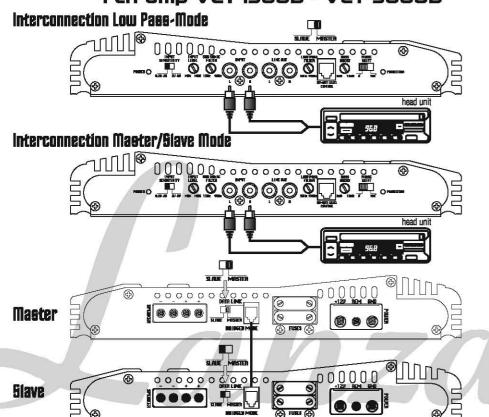


speaker connections



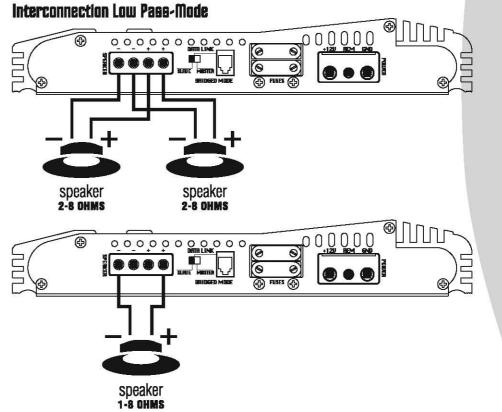
mono input connections

I ch amp VCT-I500D · VCT-3000D



speaker connections

I ch amp VCT-I500D · VCT-3000D

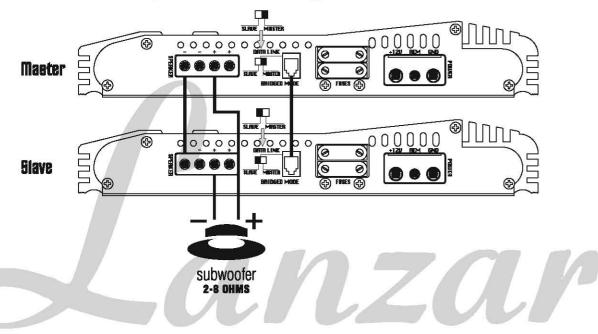


speaker connections

I ch amp VCT-I500D · VCT-3000D

Interconnection Maeter/Slave Mode

Interconnection example 1 aubwoofer with a single-Voicecoil

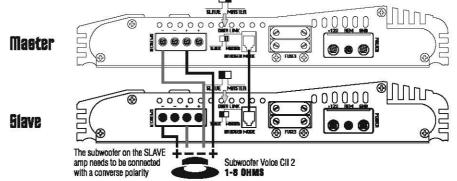


speaker connections

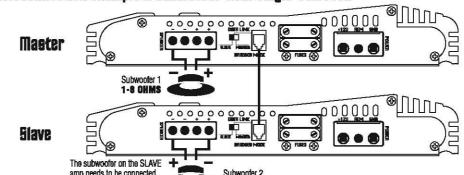
I ch amp VCT-I500D · VCT-3000D

Interconnection Mapter/Slave Mode

Interconnection example 1 subwooFer with a Dual-Voicecoil



Interconnection example 2 subwoofer with Single-Volcecoll



mounting and installation

Your new Lanzar Vector Series amplifier comes complete with all required mounting hardware. When determining a suitable location in your vehicle for the amp, please remember that it is a high-power electronic device capable of generating high heat.

For this reason, always choose a location in your vehicle which has low vibration, adequate ventilation, a minimum of dust, and no moisture. Be sure to mount the amp in such a manner as to allow reasonable airflow over the cooling fins.

Mark the location for the mounting screw holes by positioning the amp where you wish to install it and use a scribe (or one of the mounting screws) inserted in each of the mounting holes to mark the mounting surface. If the mounting surface is carpeted, measure the hole centers and mark with a felt tip pen.

Before attempting to drill the mounting holes, take note of any wires, lines or other devices in your vehicle which may be located behind the mounting surface! Then drill pilot holes in the mounting surface for the mounting screws and insert them. Tighten the screws securely.

When making electrical connections to your amplifier, please observe the following:

Use at least 8 gauge wire for power and ground connections.

Wire the amplifier directly to the car battery.

For the ground connection, use the shortest possible wire to a good chassis ground point

Wire the Remote connection to the auto start lead of your head unit, equalizer or power antenna.

About power fuses:

Lanzar Vector Series amplifiers feature built-in fuse systems. These fuses protect both the amplifier and the electrical system in your vehicle from fault conditions. If you ever need to replace the fuse in your Lanzar Vector Series amp, use a fuse of exactly the same type and rating. A different type or rating of fuse may result in damage or fire.



troubleshooting

protection

The built-in protection circuitry in the Lanzar Vector Series amplifiers will disable the amplifier if it senses an input overload, a speaker short circuit, or extreme temperature conditions.

When the protection circuit is activated by any of these conditions, the Protection LED will be illuminated.

If this occurs, carefully inspect the system to determine the source of the problem.

- If the shutdown was a result of a thermal overload condition, allow the amplifier to cool down before attempting to restart it.
- If the shutdown was a result of an input overload, or speaker short circuit, be sure to correct the condition before restarting.

The amplifier can be restarted by turning the remote power OFF and then ON again.

No outpu

Confirm that all terminal strip connections are secure and tight.

Check both in-line and built-in fuses. Both the +12V and the Remote terminals must have +12v referenced to chassis ground.

Confirm that the audio signal source (car radio, equalizer, etc.) is connected and is supplying output signal. To check if the amp is supplying signal, unplug the cables from the signal source (but leave them plugged into the amp). Briefly tap the center pin of each of the disconnected RCA plugs with your finger. This should produce a noise (feedback) in your speakers.

Only one channel works.

Confirm that all terminal strip connections are secure and tight.

Check the Balance control on the head unit (or other source) to verify that it is set to its midpoint.

If you are using the Low Level RCA input, reverse the input plugs at the amplifier (i.e., switch the L with the R). If the channels which is silent switches to the other side, the problem is either in the head unit/other source or the connecting cables.

Weak output.

Readjust the Input Level Control(s) to better suit the input signal.

Noise in the audio.

If the noise is a "whine" whose pitch follows the engine speed, confirm that the amplifier and any other signal sources (head unit, etc.) are properly grounded.

If the noise is a "clicking" or "popping" noise whose rate follows the engine speed, this usually means that the vehicle is equipped with resistor spark plugs and wires, or that the ignition is in need of service.

Check the rounting of the speaker and input wires to make sure they are not adjacent to wires which interconnect lights and other accessories.

If the above steps fail to improve or clear noise interference, the system should be checked by a professional mobile audio installer

notes

precautions

Do not operate the amplifier when it is unmounted. Attach all audio system components securely within the automobile to prevent damage, especially in an accident.

Do not mount this amplifier so that the wire connections are unprotected, or in a pinched condition, or likely to be damaged by nearby objects.

Before making or breaking power connections in your system, disconnect the vehicle battery. Confirm that your head unit or other equipment is turned off while connecting the input jacks and speaker terminals.

If you need to replace the power fuse, do so only with a fuse identical to that supplied with the amplifier. Using a fuse of a different type or rating may result in damage that isn't covered in the manufacturer's warranty.

