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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.

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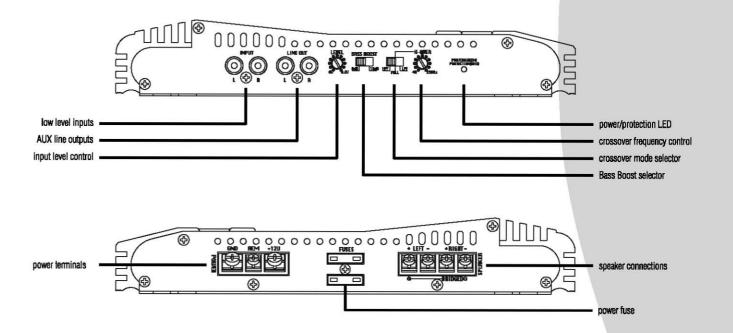
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2 ch amp VCT-2010

Input level controls Input lev
Input level controls
(or other signal source). The input sensitivity of adjustment ranges from 6V to 200mV. When crossover mode selector is in HIGHPASS mode, this control sets the lower frequency limit for audio program sent to the speakers. Have 2 these form 300 Watts 2 800 Watts 1000 Watts 1
67 to 200mV. 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. When crossover mode selector is in LOWPASS mode, this control sets the upper frequency limit for audio program sent to the speakers.
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. ### April 1000 Watts ### April 1000 Wa
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. 15 Hz-30 KHz inspectance
When crossover mode selector is in LOWPASS mode, this control sets the upper frequency limit for audio program sent to the speakers.
the upper frequency limit for audio program sent to the speakers.
The crossover is continuously variable adjustment from 40 to 250 Hz. Iow level layer lay
hass heest selector This selector switch permits the bass level an increase of 18dB.
low level Imput This amp features RCA type jacks for high impedance input. low level Imputs 200mV~6V Adjustable
Use these with car stereo output which uses RCA type connector cables. Set It your car stereo jacks are not RCA type output, use the high-low level
input adaptor to connect the speaker output leads of carstered and the
RCA input jacks of amp.
AUX line outputs This amp features RCA jacks for AUX line outputs.
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. presection LED This indicator is illuminated in RED when the built-in protection circuitry
is activated Heatscarry Special Reproduce
www.r tune The fuse protects the amplifier and your car's electrical system from short steres made 2-4 Ohms
circuit conditions. bridged made 4-8 Ohms
power terminals Use these connectors to deliver power, ground, and remote turn-on control maximum samest from 20A x 2
to the amplifier. speaker connectors These terminals are to quarantee high conductivity and minimum signal loss.
ansignment (W X II X II)
270 x 45.2 x 190
Inches 10.63 x 1.78 x 7.48

features and controls 2 ch amp VCT-2010

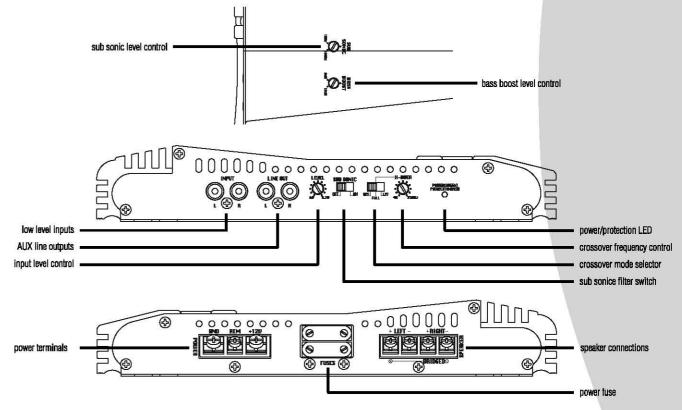


2 ch amp VCT-2610

CLOSSONAL MIDDA SSINCIAL		OUTPUT POWER & 14 AT DE, 1 KMZ	VG1-2610
	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 Ohms	450 Watts x 2
lumint laurel aandrala	HIGHPASS' settings.	RMS Power @ 2 Ohas	
input level controls	Enables the matching of input levels to the output levels from head unit (or other signal source). The input sensitivity of adjustment ranges from	THD @ 2 Ohms	900 Watts x 2
	6V to 200mV.	Maximum Power Dutnut	
crossover frequency control	When crossover mode selector is in HIGHPASS mode, this control sets	Bridged Power at 4 Output	
	the lower frequency limit for audio program sent to the speakers.	frequency response	
	When crossover mode selector is in LOWPASS mode, this control sets		
	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	000 1/ 0// 1/ 1//
sub sonic control	approximately up to 18dB. When the sub sonic selector switch is in "ON" mode, this filter control		200mV~6V Adjustable
SUB SOREC CORCIO	permits continuously variable adjustment from 10 to 100Hz.	S/N ration	
low level land	This amp features RCA type jacks for high impedance input.	channel separation	>65dB
	Use these with car stereo output which uses RCA type connector cables.	crossover filters	
high level input	If your car stereo jacks are not RCA type output, use the high-low level	low Pass	40 Hz-250 Hz
	input adaptor to connect the speaker output leads of car stereo and the	high Pass	
	RCA input jacks of amp.	bass boost	
AUX line autputs	This amp features RCA jacks for AUX line outputs.	sab seale filter	
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	
protection LED	This indicator is illuminated in RED when the built-in protection circuitry	stereo mode	2-4 Ohms
	is actirated.	bridged mode	4-8 Ohms
power fess	The fuse protects the amplifier and your car's electrical system from short	maximum current draw	60A x 2
	circuit conditions.	power sunniv veltage	14.4V DC Neg. Ground (10.5-16V)
power terminals	Use these connectors to deliver power, ground, and remote turn-on control	dimensions (W x H x L)	7 11 17 20 1.10g. Gradina (10.0 101)
	to the amplifier.		270 x 45.2 x 558
speaker connectors	These terminals are to guarantee high conductivity and minimum signal los	is. Inches	10.63 x 1.78 x 21.97
		THPHES	10.00 A 1.10 A L 1.31

features and controls

2 ch amp VCT-2610

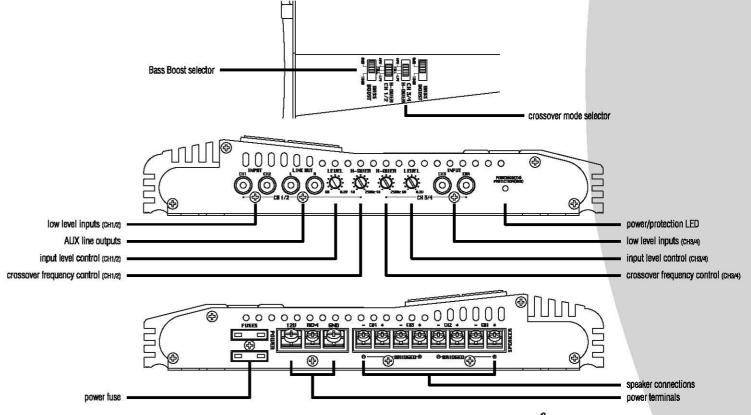


4 ch amp VCT-4110

crossover mode salactar		output power @ 14.4v DC, 1KHz	VCT-4110
	If you wish to use the internal crossover to power a driver or specific	RMS Power @ 4 Ohms	50 Watts x 4
	frequency range, use the "LPF" or "HPF" FOR the "LOWPASS" OR	THD @ 4 Chass	75 Watts x 4
	HIGHPASS' settings.	RMS Power @ 2 Ohms	100 Watts x 4
input level controls	Enables the matching of input levels to the output levels from head unit	THD @ 2 Ohms	150 Watts x 4
	(or other signal source). The input sensitivity of adjustment ranges from		
	6V to 200mV.	Maximum Power Output	
crossover frequency control	When crossover mode selector is in HIGHPASS mode, this control sets	Bridged Power at 4 Output	
	the lower frequency limit for audio program sent to the speakers. When crossover mode selector is in LOWPASS mode, this control sets	frequency response	15 Hz-30 Hz
	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 laputs	10K Ohms
bass boost level central	This control permits adjustment of the bass level up to an increase of	input sensitivity	
	approximately up to 18dB.	low level lapats	200mV~6V Adjustable
low level input		S/II ration	
50 - 100 -	Use these with car stereo output which uses RCA type connector cables.	channel separation	
high level input		사 가는 생각 그 사람들이 모르는 사람들이 바로 가게 하고 있다.	>000B
	input adaptor to connect the speaker output leads of car stereo and the	crossover filters	40.11 050.11
	RCA input jacks of amp.	low Pass	
AUX line outputs	This amp features RCA jacks for AUX line outputs.	high Pass	40 Hz-250 Hz
	Use these for unlimited system expansion to the next VECTOR.	matching speaker impedance	
power LED	This indicator is illuminated in GREEN when power is applied.	steree mede	2-16 Ohms
protection LED	This indicator is illuminated in RED when the built-in protection circuitry is activated.	bridged mode	4-16 Ohms
power fase	The fuse protects the amplifier and your car's electrical system from short	maximum current draw	30A x 2
poser isse		power supply voltage	
	cimult conditions		
power terminals	circuit conditions. Use these connectors to deliver nower, ground, and remote turn-on control		14.17 Do 140g. Ground (10.0 101)
power terminals	circuit conditions. Use these connectors to deliver power, ground, and remote turn-on control to the amplifier.		270 x 45.2 x 356

features and controls

4 ch amp VCT-4110



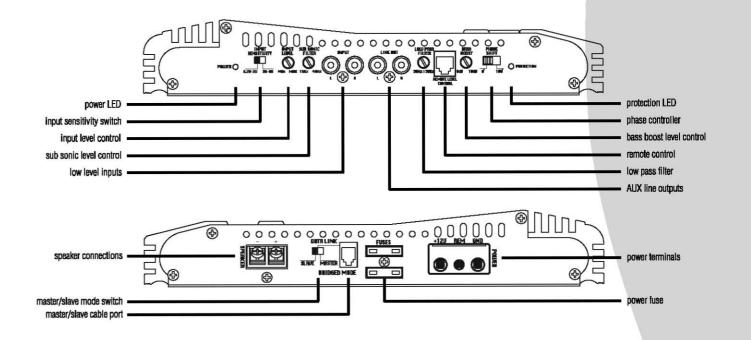
Input level controls Enables the matching of input levels to the output levels from head unit output nower @ 14.4v DG. 1KHz VCT-1500B

I ch amp VCT-I500D

	(or other signal source).	RMS Power @ 4 Ohms	300 Watts x 1
hass boost level centrel	This control permits adjustment of the bass level up to an increase of	THE G A Charac	450 Watts x 1
	approximately up to 18dB.	RMS Power @ 2 Ohms	
sub sonic central	Variable adjustment from 15 to 40Hz.		
low level input	This amp features RCA type jacks for high impedance input.	THD @ 2 Ohms	
	Use these with car stereo output which uses RCA type connector cables.	RMS Power @ 1 Ohans	77 77 70 A 197 17 TO A 197 4 19 A
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 estants	This amp features RCA jacks or AUX line outputs.	low level inputs	10K Ohms
power LED	Use these for unlimited system expansion to the next VECTOR. This indicator is illuminated in GREEN when power is applied.	input sonsitivity	
protection LED	This indicator is manimated in CRED when the built-in protection circuitry		
biomerica ren	is actirated.		200mV~8V Adjustable
master/slave cable port	MASTER/SLAVE signal cable.		>95dB —
uster/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	i law Pass	50 Hz-150 Hz
	by the MASTER amp.		0~+18dB
	In the MASTER-Mode (Low Pass mode)you are able to limit the frequencies		
	to above with the LOW PASS controller. All controllers are active.	matching speaker impedance	10-10112
power fase	The fuse protects the amplifier and your car's electrical system from short		0.001
	circuit conditions.		2-8 Ohms —
power terminals	Use these connectors to deliver power, ground, and remote turn-on control		
	to the amplifier.	maximum current draw	30A x 2
speaker connectors	These terminals are to guarantee high conductivity and minimum signal los	banes arbitel sasenile	14.4V DC Neg. Ground (10.5-16V)
		dimensions (W x H x L)	
		SIR!	270 x 45.2 x 308
		Inches	10.63 x 1.78 x 12.13

features and controls

I ch amp VCT-I500D



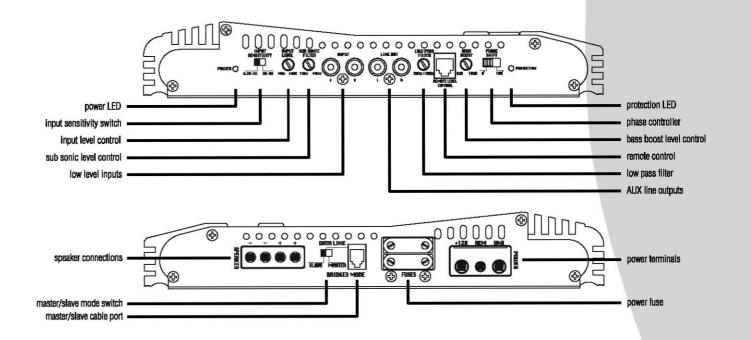
Input level controls Enables the matching of input levels to the output levels from head unit output nower @ 14.4v DG. 1KHz VCT-3000B

I ch amp VCT-3000D

		emeline benefit o tales nel time	10, 00000	
	(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 Oheas		
	approximately up to 18dB.	RMS Power @ 2 Ohms		
sub sonic central	Variable adjustment from 15 to 40Hz.		850 Watts x 1	
low level input	This amp features RGA type jacks for high impedance input.			
	Use these with car stereo output which uses RCA type connector cables.	RMS Power @ 1 Ohans		
Input sansitivity	The input sensitivity of adjustment ranges from 8V to 200mV.	THD @ 1 Ohms		
low pass filter	Variable adjustment from 50 to 150Hz.	Maximum Power Output	3000 Watts x 1	
remote centrel	Adjust the low pass signal via the enclosed remote control.	frequency response	15 Hz-150 Hz	_
phase centriler AUX line extents	Shift allows 0 degrees 180 degrees. This amp features RCA jacks or AUX line outputs.	Input Impedance		
YNY IIIIO SECHECA	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.	lapat sensitivity		
protection LED	This indicator is illuminated in RED when the built-in protection circuitry		200mV~8V Adjustable	
proteosteri mo	is actirated.		2.0000 / 1 m	
master/slave cable port	MASTER/SLAVE signal cable.		>95dB	_
ester/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	i low Pass	50 Hz-150 Hz	
	by the MASTER amp.			
	In the MASTER-Mode (Low Pass mode)you are able to limit the frequencies	es sub sonic filter	15-40 Hz	
	to above with the LOW PASS controller. All controllers are active.	matching speaker impedance		
power tuse	The fuse protects the amplifier and your car's electrical system from short	stereo mode	2-8 Ohms	
	circuit conditions.			
power terminals				
szeeker connectors	to the amplifier. These terminals are to guarantee high conductivity and minimum signal los	maximum current draw	The state of the s	
Speaker connectors	these terminals are to guarantee ingit conductivity and minimum signal to	os. power supply veltage dimensions (W x H x L)	14.4V DC Neg. Ground (10.5-16V)	
		ESS.	270 x 45.2 x 360	
		Inches	10.63 x 1.78 x 14.17	
		IRCRES	10.03 x 1./0 x 14.1/	

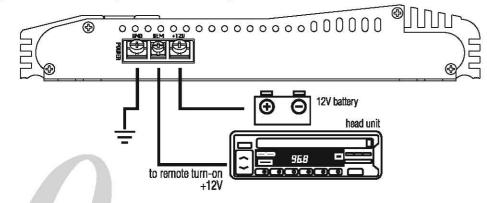
features and controls

I ch amp VCT-3000D

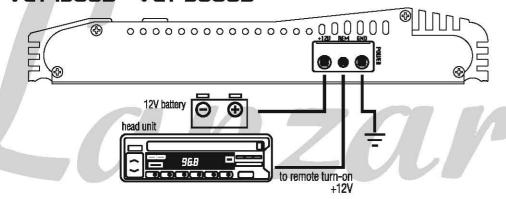


electrical connections

VCT-2010 • VCT-2610 • VCT-4110

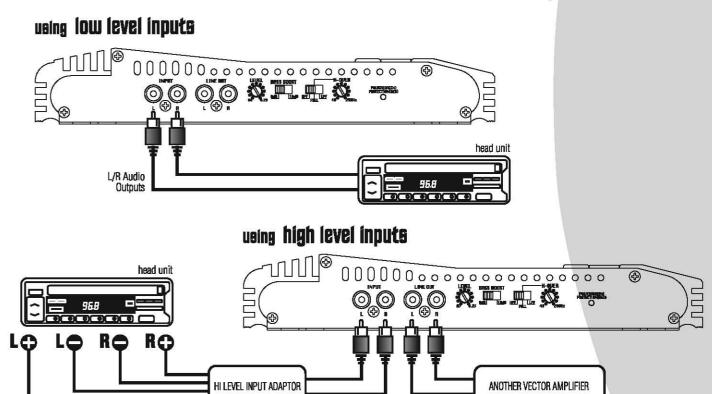


VCT-1500D • VCT-3000D



stereo input connections

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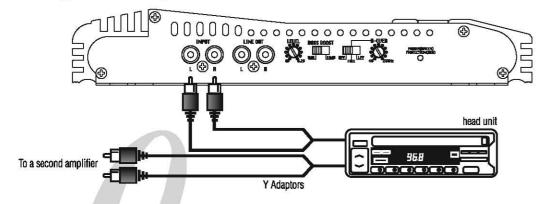


from speaker terminals

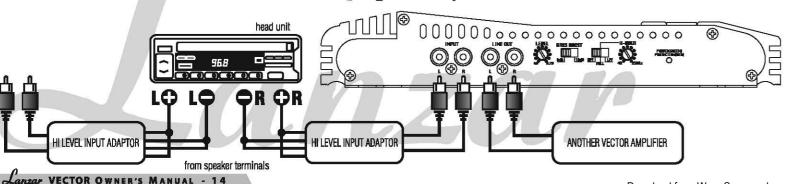
mono input connections

2 ch amp • VCT-2010

using low level inputs



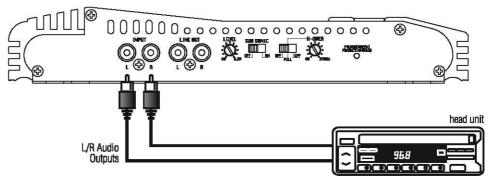
using high level inputs



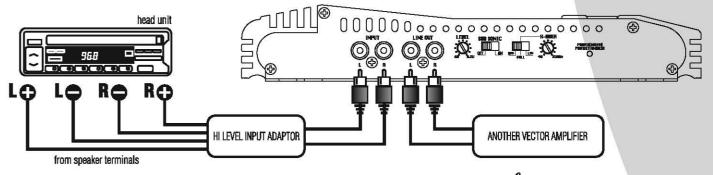
stereo input connections

2 ch amp · VCT-2610

using low level inputs



using high level inputs

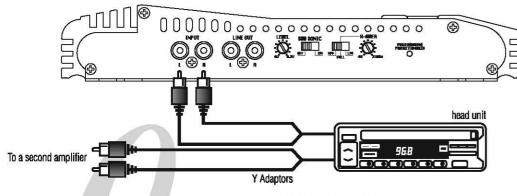


mono input connections

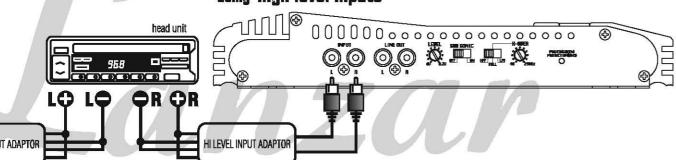
2 ch amp • VCT-2610

using low level inputs

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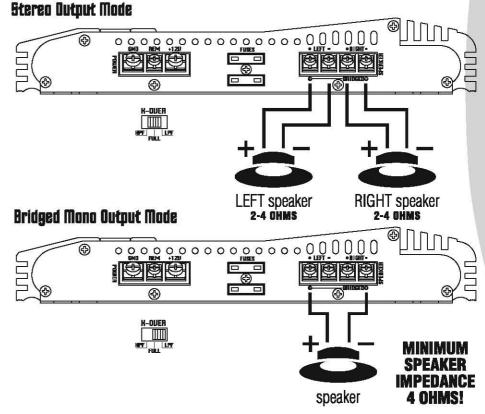


using high level inputs



speaker connections

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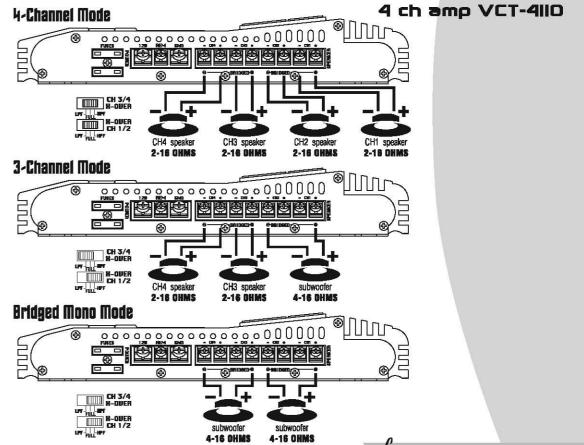


input connections

4 ch amp VCT-4110

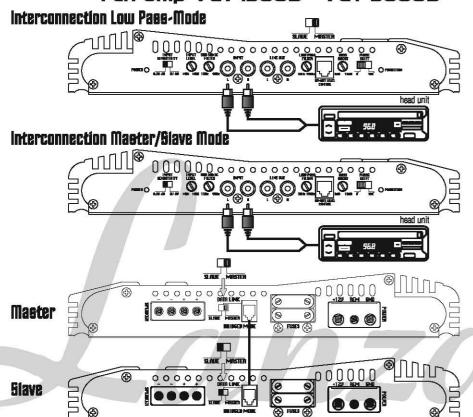
using low level inputs L/R Audio Outputs L/R Audio Outputs 95.8 using high level inputs NAME OF CHAPTER H-DIGHT LEDGE SECONDARY head unit HI LEVEL INPUT ADAPTOR HI LEVEL INPUT ADAPTOR from speaker terminals

speaker connections



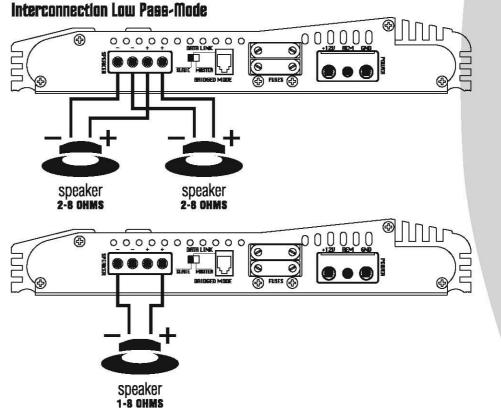
mono input connections

I ch amp VCT-I500D · VCT-3000D



speaker connections

I ch amp VCT-I500D · VCT-3000D

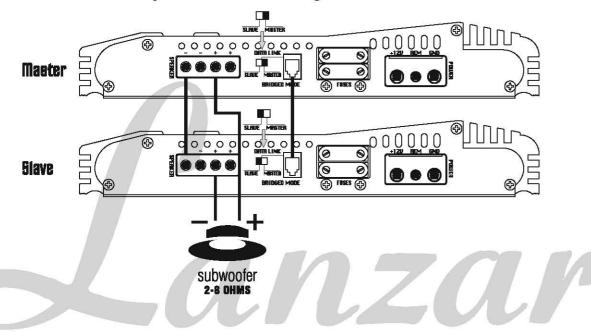


speaker connections

I ch amp VCT-I500D · VCT-3000D

Interconnection Maeter/Slave Mode

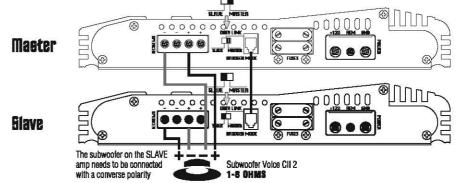
Interconnection example 1 aubwoofer with a single-Voicecoil



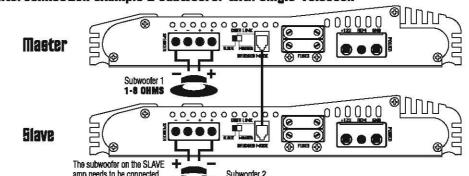
speaker connections

I ch amp VCT-I500D · VCT-3000D

Interconnection Maeter/Slave Mode Interconnection example 1 submoofer with a Dual-Volcecoil



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.

Readiust 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

notes

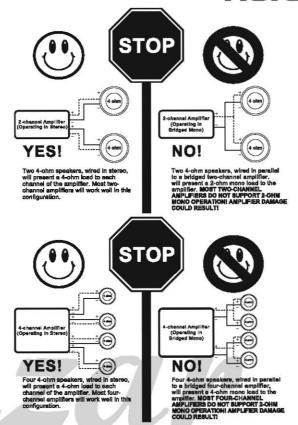
precautions

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.



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