



VCT-2110 VCT-2210 VCT-2310 VCT-2410 VCT-2510



AMERICAN CRAFTED PERFORMANCE

Owner's Manual

congratulations...

Congratulations on , our purchase of a Lanzar VECTO , series <u>amplifier</u>. 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.

table of contents

features and specifications VCT-2110/VCT-2210 /CT-2310/VCT-2410/VCT-2510	<i>2</i> -5	system wiring speaker connections VCT-2110/VCT-2210 VCT-2310/VCT-2410/VCT-2510	11
electrical connections VCT-2110/VCT-2210 /CT-2310/VCT-2410/VCT-2510	6	mounting and installation protection circuitry and troubleshooting	12 13
stereo/mono input connections VCT-2110/VCT-2210 /CT-2310/VCT-2410/VCT-2510	7- 10		

features and specifications

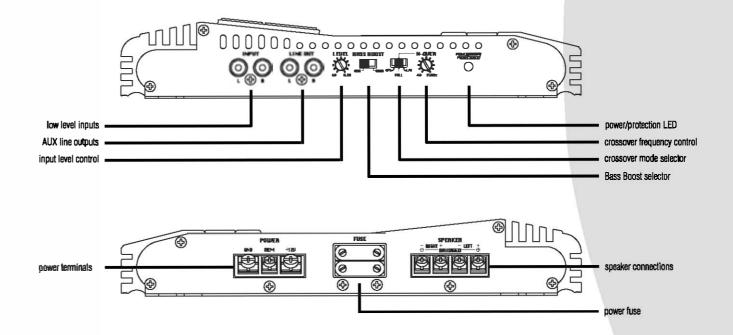
2 ch amp VCT-2110 · VCT-2210

VCT-2210

Elemental Mone selector	When used with normal, buil range system, set this switch to "FULL".	HIGHE POWER & 14.44 NC, 11.12	VG1-2110	VG1-2210
	If you wish to use the internal crossover to power a driver or specific	RMS Power @ 4 Obas	50 Watts x 2	100 Watts x 2
	frequency range, use the "LPF or "HPP" FOR the "LOWPASS" OR	7190 @ 4 Obass	75 Watts x 2	150 Watts x 2
	HIGHPASS' settings.	RMS Power @ 2 Obas	75 Watts x 2	150 Watts x 2
input level controls	Enables the matching of input levels to the output levels from head unit	700 0 2 Obus	100 Watts x 2	200 Watts x 2
	(or other signal source). The input sensitivity of adjustment ranges from	Maximum Pavar Outset	500 Watts x 2	1000 Watts x 2
	6V to 200mV.			
crossover frequency control	When crossover mode selector is in HIGHPASS mode, this control sets	Bridged Pawer at 4 Output	1000 Watts x 1	2000 Watts x 1
	the lower frequency limit for audio program sent to the speakers.	frequency response -	15 Hz-30 K	Hz ———
	When crossover mode selector is in LOWPASS mode, this control sets			
	the upper frequency limit for audio program sent to the speakers.	Input trapedance		
hass boost soluctor	The crossover is continuously variable adjustment from 40 to 250 Hz.	iow lavel laputs -	10K Ohm	ns ———
6322 Goost 2018CIO	This selector switch permits the bass level an increase of 18dB. (VCT-2110/2210)	laggt spasitivity		
low level inpet			14 0144	
ion dedi mbar	Use these with car stereo output which uses RCA type connector cables.	iow level isputs -	200mV~6V Adjustable	
high level input		S/N cation -	>95dB	
(iiiiii soosi iiihar	input adaptor to connect the speaker output leads of carstereo and the	channel separation -		
	RCA input lacks of amp.	cressover filters	70000	
AVX liee outputs			40 Hz-250	Hz
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Use these for unlimited system expansion to the next VECTOR.	hiah Pass -		
pgwgr LED	This indicator is illuminated in GREEN when power is applied.			
protection LED		bass boast -	0/+18dB	
1	is activated.	asstableg speaker bepedance		
power free	The fuse protects the amplifier and your car's electrical system from short	sterne reste	2-4 Ohm	25 21
	circuit conditions.	bridged made -		
power twodenis	Use these connectors to deliver power, ground, and remote turn-on control		30A	40A
	to the amplifier.	व्यांकक स्थान करण		
speaker connectors	These terminals are to guarantee high conductivity and minimum signal loss	power supply voltage diseasies (W x H x L)	14.4V DC Neg. Gro	,
		AND SERVICE SE	270 x 44.5 x 228	270 x 44.5x 305
		Inches	10.63 x 1.75 x 9	10.63 x 1.75 x 12

features and controls

2 ch amp VCT-2110 · VCT-2210



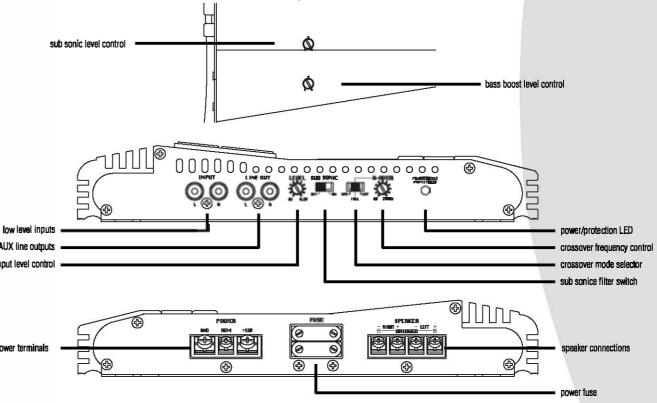
features and specifications

2 ch amp VCT-2310 · VCT-2410 · VCT-2510

ELDERGABL MODE BEHELLEL		DUCAN POWOL & 1474 NC' 1815	VC1-2318	VCI-2418	VC1-2518
	If you wish to use the internal crossover to power a driver or specific	RMS Power @ 4 Dhass	150 Watts x 2	200 Walts x 2	300 Watte x 2
	frequency range, use the "LPF" or "HPF" FOR the "LOWPASS" OR	7180 @ 4 Ohas	250 Walts x 2	300 Walts x 2	450 Watts x 2
	HIGHPASS' settings.	RMS Power @ 2 Diams	250 Watts x 2	300 Wattis x 2	450 Walts x 2
input level controls	Enables the matching of input levels to the output levels from head unit	1140 @ 2 Chas			
	(or other signal source). The input sansitivity of adjustment ranges from		300 Walts x 2	400 Walts x 2	650 Walts x 2
	6V to 200mV.	Maximum Power Output	1500 Watts x 2	2000 Walts x 2	2500 Walts x 2
crossover frequency control	When crossover mode selector is in HIGHPASS mode, this control sets	Orláged Power at 4 Output	3000 Walts x 1	4000 Walts x 1	5000 Walts x 1
	the lower frequency limit for audio program sent to the speakers.	(requency response		15 Hz-30 HHz	
	When crossover mode selector is in LOWPASS mode, this control sets			IJ IIZ-JU INK	
	the upper frequency limit for audio program sent to the speakers.	input impodance			
	The crossover is continuously variable adjustment from 40 to 250 Hz.	law level Inputs		10K Ohms	
base koost level control	This control permits adjustment of the bass level up to an increase of			1011 0111110	
	approximately up to 18dB. (VCT-2310/2410/2510)	laput sessitivity			
pu h sonic control	When the sub-sonic selector switch is in "ON" mode, this filter control	lew level inputs	200	mV~6V Adjust	able
	permits continuously variable adjustment from 10 to 100Hz.	S/N ratios		>95dB	
	(VCT-2310/2410/2510)	chassel separatios		>65dB	
low level input	This amp features RCA type jacks for high impedance input.			>0000	
	Use these with car stereo output which uses RCA type connector cables.	crossover filters		40.11- 050.11-	
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		40 Hz-250 Hz	
	RCA input Jacks of amp.	hass beest		0~+18dB	
AUX line outputs	This amp features RCA Jacks for AUX line outputs.	seb soole filter		10-100 Hz	
/ /	Use these for unlimited system expansion to the next VECTOR.	000 003110 111101		10 10012	
pawer LED	This indicator is illuminated in GREEN when power is applied.	eastables speaker laspedance			
protection LED	This Indicator is illuminated in RED when the built-in protection circultry	stereo mede		2-4 Ohms	
/ /	is actirated.	bridged made		4-8 Ohms	
power fuse	The fuse protects the amplifier and your car's electrical system from short	couriestes outreat draw	50A	60A	60A
	circuit conditions.	power supply voltage			
power terminals	Use these connectors to deliver power, ground, and remote turn-on control	dimensions (W x H x L)	14.4V DG	Neg. Ground (10.3-10V)
	to the amplifier.		270 v 44 5 v 201	270 v 44 5 v 422	270 v 44 Cv 522
speaker sessestors	These terminals are to guarantee high conductivity and minimum signal loss		270 x 44.5 x 381	270 x 44.5 x 432	270 x 44.5x 532
		Inches	111/11 X 1 /5 X 15	10 63 x 1 75 x 17	10 63 x 1 75 x 21

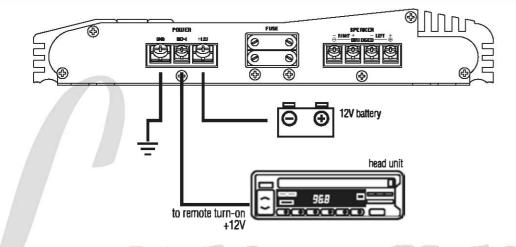
features and controls

2 ch amp VCT-2310 · VCT-2410 · VCT-2510



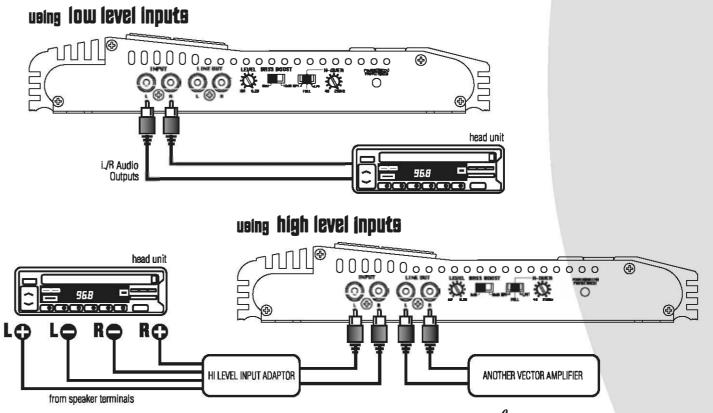
electrical connections

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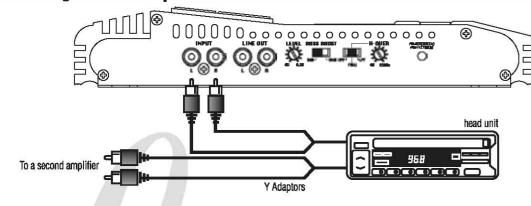
stereo input connections

2 ch amp • VCT-2110 • VCT-2210

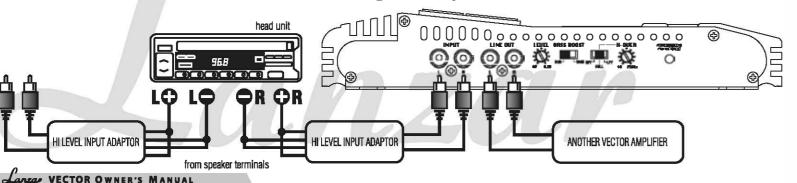


mono input connections

2 ch amp · VCT-2110 · VCT-2210



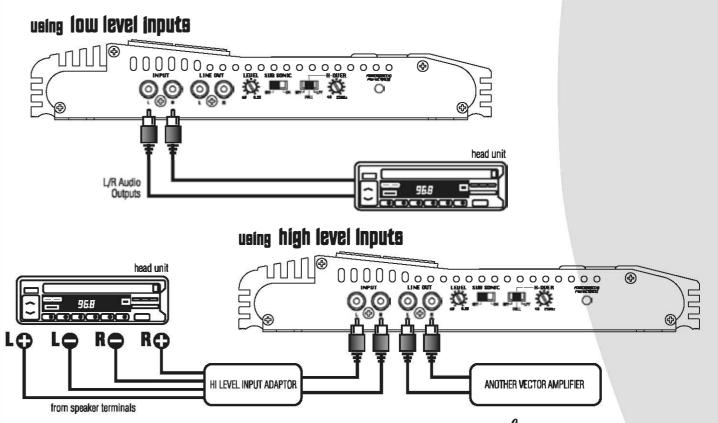
using high level inputs



stereo input connections

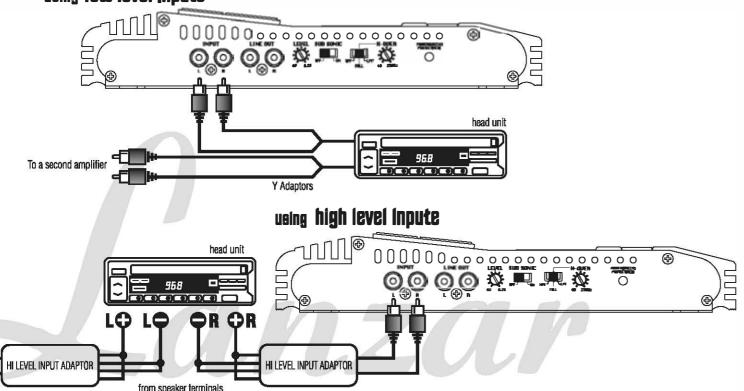
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VECTOR OWNER'S MANUAL - 9



mono input connections

2 ch amp · VCT-2310 · VCT-2410 · VCT-2510 using low level inputs



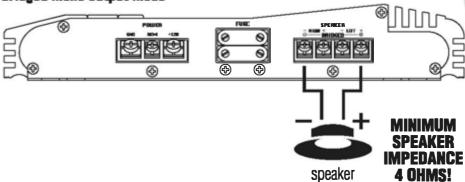
speaker connections

LEFT speaker

Stereo Dutput Mode

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VCT-2310 · VCT-2410
VCT-2510

Bridged Mono Output Mode



RIGHT speaker

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 B 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

circuitry

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.

Но оцфи

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 inger. 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 audio installer.



