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VRx audison

2000 EDITION

Owner's manual



audison
is a division of **elettromedia**

Power amplification integrated system for cars

* NP - Nominal Power (+ 10%, -5%) @ 4Ω - 12V - 0,3% THD.

AMPLIFIERS		VRx 1.500	VRx 2.150	VRx 2.250	VRx 2.400	VRx 4.300	VRx 6.420	
Number of channels		1	2	2	2	4	6	
Nominal Power @ 12V *		W	500x1	75x2	125x2	200x2	75x4	
POWER @ 13.8V	6 ch. mode - 4Ω	W					65x4 + 80x2	
	6 ch. mode - 2Ω	W					75x4 + 85x2	
	6 ch. mode - 4/2Ω	W					120x4 + 150x2	
	6 ch. mode - 4/1Ω	W					75x4 (4Ω) + 165x2 (2Ω)	
	5 ch. mode - 4Ω	W					75x4 (4Ω) + 250x2 (1Ω)	
	5 ch. mode - 4/2Ω	W					75x4 + 330x1	
	5 ch. mode - 2Ω	W					75x4 (4Ω) + 500x1 (2Ω)	
	4 ch. mode - 4Ω	W					110x4 + 430x1	
	4 ch. mode - 2Ω	W						
	4 ch. mode - 1Ω	W						
	3 ch. mode - 4Ω	W						
	3 ch. mode - 4/2Ω	W						
	2 ch. mode - 4Ω	W		110x2	160x2	250x2	350x2	
	2 ch. mode - 2Ω	W		180x2	280x2	450x2	440x2	
	2 ch. mode - 1Ω	W		240x2	420x2	580x2		
1 ch. mode - 4Ω	W	560x1	360x1	560x1	900x1			
1 ch. mode - 2Ω	W	1080x1	480x1	840x1	1160x1			
1 ch. mode - 1Ω	W	2000x1						
Distortion - THD (1 KHz)		%	0.02	0.02	0.02	0.02	0.02	
A weighed S/N ratio		dBA	100	100	100	100	100	
Hi-Lo input sensitivity		VRMS	0.15-1.5/0.5-5	0.15-1.5/0.5-5	0.15-1.5/0.5-5	0.15-1.5/0.5-5	0.15-1.5/0.5-5	
Use in bridge			✓	✓	✓	✓	✓	
Use in tri-mode			✓	✓	✓	✓	✓	
Stereo load impedance		Ω		8-4-2-1	8-4-2-1	Ch.A & Ch.B: 8-4-2-1	Ch.A & Ch.B: 8-4-2; Ch.C: 8-4-2-1	
Mono/bridge load impedance		Ω	8-4-2-1	8-4-2	8-4-2	Ch.A & Ch.B: 8-4-2	Ch.A & Ch.B: 8-4; Ch.C: 8-4-2	
PRM3 option			✓	✓	✓	✓✓	✓✓✓	
SM24 option			✓	✓	✓	✓	✓	
PC36 option			✓	✓	✓	✓	✓	
DSC1 option			✓					
BTX2 option			✓	✓	✓	✓	✓	
VCRDK option			✓	✓	✓	✓	✓	
HL12 option			✓	✓	✓			
BH12 option				✓	✓			
LM24 option			✓	✓	✓			
HL24 option			✓	✓	✓			
BSA1 option			✓	✓	✓			
MAC2 option - with TRM or RC			✓	✓	✓	✓	✓	
TRM4 - TRM6 option			✓	✓	✓	✓		
RC08 - RC10 - RC12 option			✓	✓	✓	✓	✓	
MULTICHANNEL EXTENSIONS		HL12		BH12		LM24	HL24	BSA1
		HI/LO-PASS		BAND/HI-PASS		LO-PASS MONO	HI-PASS STEREO LO-PASS MONO	BALANCED PRE OUT
 DEPENDENT ADJUSTMENTS								
CROSSOVER SLOPE		dB/oct.		12		24	HI-PASS 12/LO-PASS 24	
CUT OFF FREQUENCIES		Hz		40-5k		40-90	LO-PASS 40-90 HI-PASS 40-120	
CONTINUOUS ADJUSTMENTS				✓		✓	✓	
AMP-OUT/PRE-OUT SWITCHING				✓		✓	✓	
PRE-OUT FUNCTION		HI-PASS; LO-PASS; BYPASS		HI-PASS; BYPASS		LO-PASS; BYPASS	HI-PASS; LO-PASS; BYPASS	BYPASS
CONTROL EXTENSIONS								
PRM3		ONE BAND PARAMETRIC EQUALISER WITH CONTINUOUS CONTROLS FOR: FREQUENCY (SELECTABLE IN THREE STEPS, FROM 20HZ TO 20KHZ), GAIN (-9DB, +9DB), BAND WIDTH (Q FROM 1 TO 4). BY-PASS SWITCH.						
SM24		24DB/OCT. MONO SUBSONIC FILTER. CONTINUOUSLY ADJUSTABLE FREQUENCY BETWEEN 14 AND 36HZ. BY-PASS SWITCH.						
PC36		ANALOGUE PHASE CONTROL. CONTINUOUSLY ADJUSTABLE PHASE BETWEEN 0° AND 360°, SELECTION ON THREE FREQUENCY RANGES (40-200 HZ; 200-800 HZ; 800-4500 HZ). BY-PASS SWITCH.						
DSC1		AUTOMATIC DYNAMIC PROCESSOR FOR SUBWOOFER RESPONSE CONTROL.						
VCRDK		SYSTEM FOR MASTER VOLUME REMOTE CONTROL IF USED IN BTX2 OR FOR LEVEL CONTROL OF ANY WAYS IN A MULTIAMPLIFIED SYSTEM IF USED IN VRX. BASED ON VCA1D WITH DIGITAL CONTROL.						
VCA1D		ADDITIONAL MODULE FOR CONTROLLING SEVERAL CHANNELS. IF IT IS MOUNTED IN A FURTHER BTX2, IT CONTROLS ALSO REAR CHANNEL WITH ONLY ONE VCRDK.						
BTX2		ABS BALANCED LINE TRANSMITTER. THREE STEP GAIN CONTROL (0DB, +3DB, +6DB) AND PEAK LED. OPTIONAL VCA MODULE FOR LEVEL CONTROL. YOU CAN REALISE MASTER VOLUME IN FRONT/REAR SYSTEMS USING TWO BTX2, ONE VCRDK AND ONE VCA1D.						
MAC2		GRADUAL INTERVENTION COOLING SYSTEM CONTROLLED BY THE AMPLIFIER TEMPERATURE. MIN. STARTING THRESHOLD TEMPERATURE: 44 °C; MAX. EFFICIENCY TEMPERATURE: 74 °C. IT CONSISTS OF TFC CONTROLLER MODULE TO MOUNT INSIDE THE AMPLIFIER AND TWO FANS GROUPS, TO PLACE INTO A TERMINAL OR A RACCORD.						
COOLING DUCT EXTENSIONS								
TRM4		TERMINALS FOR PROTECTING CONNECTIONS; IT IS POSSIBLE TO INVERT THEIR FRONT PANEL IN ORDER TO FIX THEM WITH HIDDEN SCREWS.				HOUSING DUCTS FOR MAC2 FANS.		
TRM6								
RC08								
RC10								
RC12								
		RACCORDS BETWEEN TWO AMPLIFIERS FOR PROTECTING CONNECTIONS; PROVIDED WITH A 24K GOLD PLATED BRASS PLATE WHICH CAN BE PERSONALISED.						

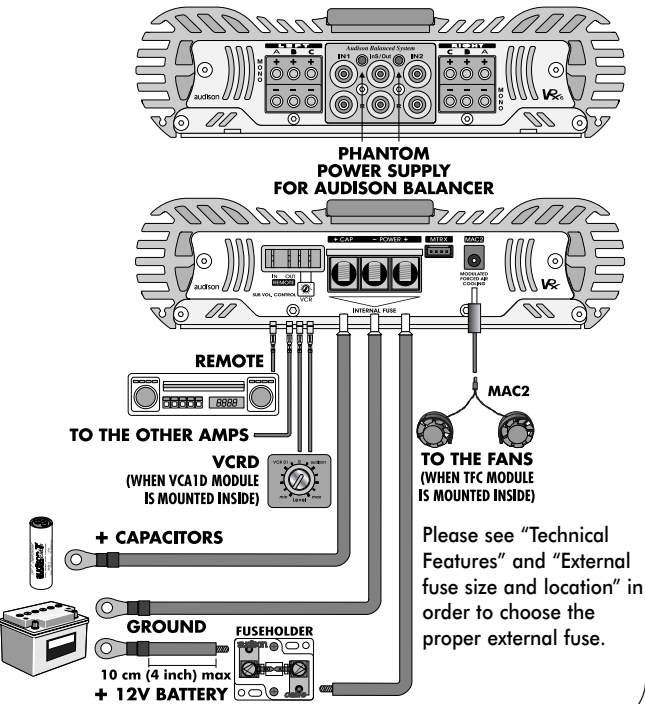
AUDISON'S MEASUREMENT STANDARDS

Power measures taken according to audison standard 1998 edition.

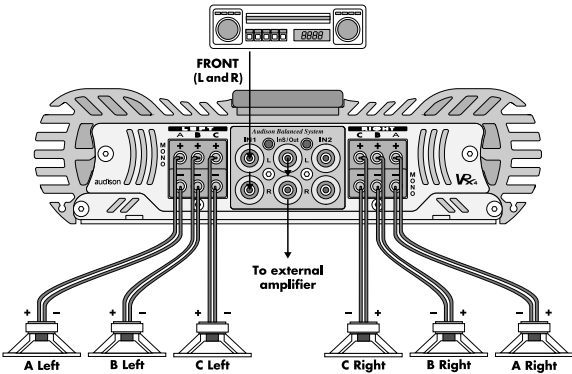
- 12 VDC and 13.8 VDC.
- 1 kHz or crossover cut-off frequency.
- 0.3 % THD nominal power; 1% THD continuous power.
- Tolerance: + 10 %; -5 %.
- Continuous power given by RMS Voltage measured on resistive load.
- The nominal power of the amplifier is measured upon a battery voltage of 12 Volts with a 4 Ohm load and with all channels in function.

VRx6.420 connections

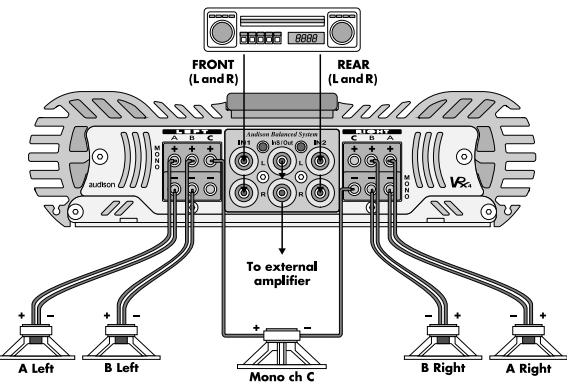
Power supply, remote and accessories



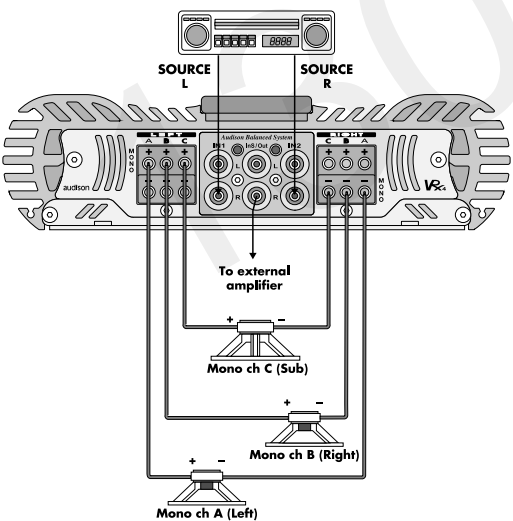
Inputs and outputs: stereo connection



Inputs and outputs: connection with C amplifiers in bridge



Inputs and outputs: connection with A, B and C amplifiers in bridge



- Objectives of VRx project	p. 2
- General features	p. 3
- VRx - MODULAR EXTENSIONS: CONTROL EXTENSIONS	
- PRM3 stereo parametric equaliser	p. 6
- SM24 24 dB/oct. mono subsonic filter	p. 6
- PC36 360° phase controller	p. 7
- DSC1 sub dynamic control	p. 8
- VCRDK digital remote volume control kit (VCRD + VCA1D)	p. 8
- MAC2 forced air modulated cooling system	p. 9
- Insertion of fans group into Terminals and Raccords	p. 10
- BTX2 stereo balancer/preamplifier	p. 11
- VRx - MODULAR EXTENSIONS: MULTICHANNEL EXTENSIONS	
- HL12 12 dB/oct. HI/LO-PASS crossover	p. 14
- BH12 12 dB/oct. BAND/HI-PASS crossover	p. 15
- LM24 24 dB/oct. LO-PASS mono crossover	p. 16
- HL24 12 dB/oct HI-PASS - 24 dB/oct. LO-PASS crossover	p. 17
- BSA1 Stereo balanced pre-out repeater	p. 18
- Updating of short guide under wooden strip	p. 19
- VRx - MODULAR EXTENSIONS: COOLING DUCT EXTENSIONS	
- Terminals and Raccords	p. 22
- Terminals: Installation of TRM4 - TRM6	p. 23
- Raccords: Installation of RC08 - RC10 - RC12	p. 24
- Wooden strip removal - Logo rotation	p. 25
- VRx INSTALLATION	
- General recommendations	p. 28
- Cables size	p. 29
- External fuse size and location	p. 30
- Internal fuse replacement	p. 31
- VRx size	p. 32
- VRx - 1.500	
- Technical features	p. 34
- Block diagram	p. 35
- Controls and functions	p. 36
- Short guide under wooden strip	p. 37
- Where to put modular extensions	p. 38
- VRx 1.500 connections	p. 39
- VRx - 2.150 - 2.250 - 2.400	
- Technical features	p. 42 - 44
- Block diagram	p. 45
- Controls and functions	p. 46
- Short guide under wooden strip	p. 47
- Where to put modular extensions	p. 48 - 49
- VRx 2.150 - 2.250 - 2.400 connections	p. 50
- VRx - 4.300	
- Technical features	p. 52
- Block diagram	p. 53
- Controls and functions	p. 54
- Short guide under wooden strip	p. 55
- 12dB/oct. Sub filter slope configurations	p. 56
- 24dB/oct. Mono Sub filter slope configurations	p. 57
- Where to put modular extensions	p. 58
- VRx 4.300 connections	p. 59
- VRx - 6.420	
- Technical features	p. 62
- Block diagram	p. 63
- Controls and functions	p. 64
- Short guide under wooden strip	p. 65
- Configurations: front/rear, multichannel, A-B-C amplifiers in bridge	p. 66
- Where to put modular extensions	p. 67
- VRx 6.420 connections	p. 68
- Audison's measurement standards	p. 69

OBJECTIVES OF VRx PROJECT

VRx project was conceived in order to solve the problems which derive from the installation of a high quality car audio system. The long and constant work made with professional installers and the use of the most advanced, currently available technology allowed **audison**’s designers to attain totally new results in terms of power, reliability and exceptional versatility above all. “VRx SYSTEM” derived from this: it is a complete line of integrated electronic circuits made by amplifiers, active crossovers and signal processors, characterised by a common conceptual system called **Open Deck Construction**.

Open Deck Construction

It’s the heart of VRx SYSTEM. It indicates the “totally open construction” of VRx SYSTEM. A sophisticated pre section can accept several modules (MODULAR EXTENSIONS) which are put before the amplifiers and allow their functioning configuration. The integration between amplifier and signal processors permits to reduce signal paths as much as possible and to obtain performances which are not commonly attained through separate units.

Modular Extensions

- They are divided into:
- **CONTROL EXTENSIONS:** signal processing and control modules and cooling modules. They can be used into all VRx.
 - **MULTICHANNEL EXTENSIONS:** crossover modules which can be employed in one and two channel amplifiers (VRx1 and VRx2). Multichannel VRx (VRx4 and VRx6) are already supplied with a sophisticated, re-configurable crossover.
 - **COOLING DUCT EXTENSIONS:** terminals and raccords which allow air ducting inside and outside the heat sink, directing its flux in order to improve cooling. If cooling modules are not used, Cooling Duct Extensions can be employed for esthetical purposes.

ABS® - AUDISON BALANCED SYSTEM

All VRx amplifiers have balanced inputs and, if supplied with integrated crossover or Multichannel Extensions, they also have balanced outputs. They use **audison cable ABS** connectors, which allow balanced connection through an exclusive panel connector which is as big as standard RCA ones. They can accept signals up to 5V, in order to be as compatible as possible with all sources which can be found into the market.

VRx AMPLIFIER

While developing VRx project, utmost attention was paid to the following aspects:

- dynamics, which involves power supply and amplifying stage
- reliability and, thus, protection and cooling
- sound quality.

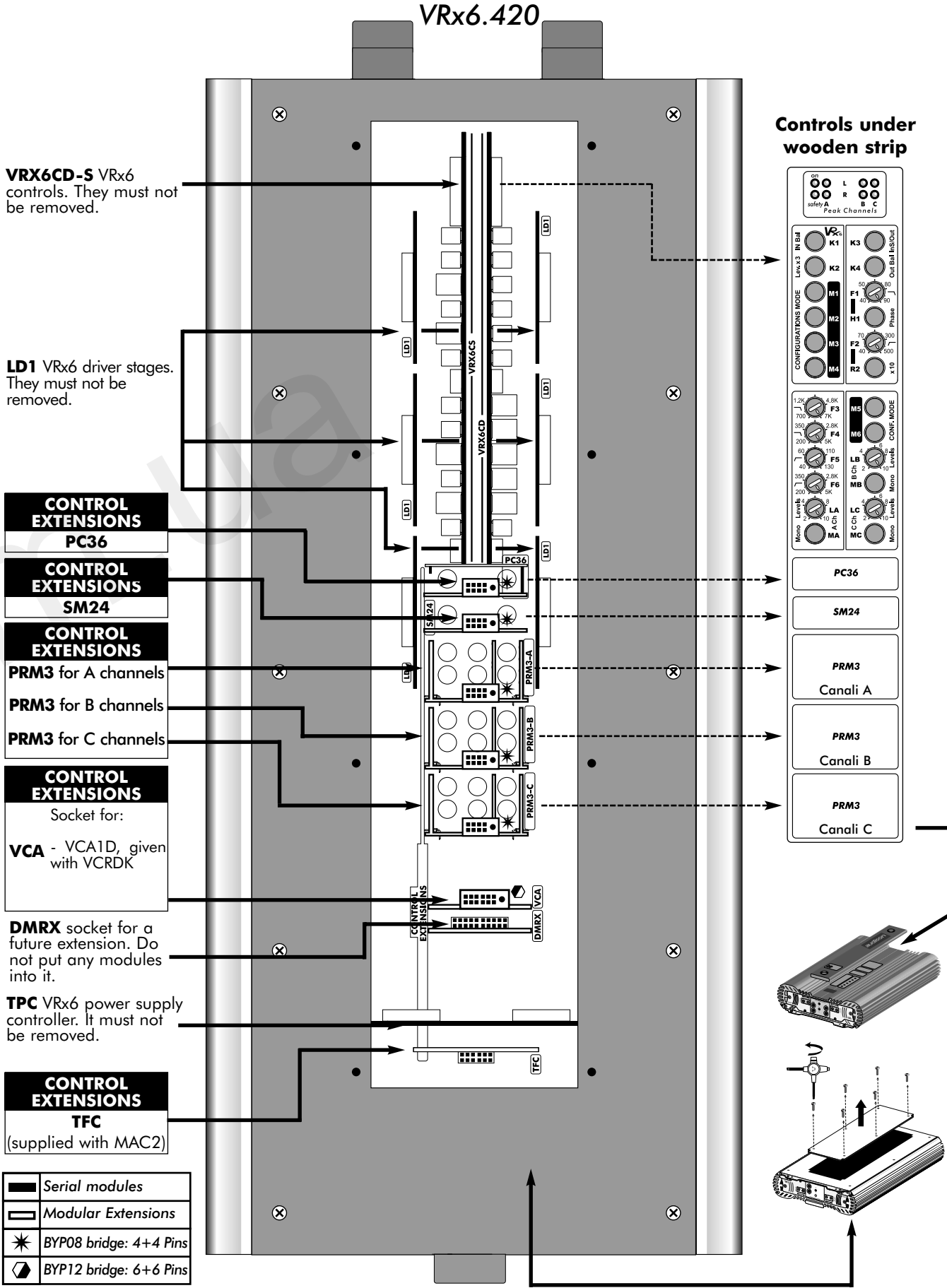
VRx amplifiers have high power, which can guarantee very good dynamics even in car. In order to be able to do this, power supply is oversized and has the same structure as **HV** series one.

Power supply is protected from overloads and excessive voltages (due to the car voltage controller breakdown or to the battery charger fault, for instance). Protection against short circuits or against too low loads onto speakers outputs were also introduced, as well as in case there is direct current on power signal. Thermal protection is double: it traditionally controls heat sink temperature but also power supply transformers one.

In order to achieve the best sound quality, VRx use totally symmetrical, pure A class refined drivers made with discrete components. These are mounted onto separate printed circuit boards with heat sink; this solution guarantees optimal thermal stability. Final stages use complementary inverted triplets of bipolar transistors. These components were judged better than mosfets since they permit to obtain more linearity with the same power.

The accurate calibration of all these designing elements allowed the limitation of feedback factor below 15dB and, thus, the achievement of outstanding sound features.

WHERE TO PUT MODULAR EXTENSIONS



VRx6.420
Front/Rear configurations

N°	A Channels	B Channels	C Channels	PRE OUT	IN SUB	INPUTS		CONFIGURATION MODE						MONO - STEREO		
Ch	2 x 65 W	2 x 65 W	2 x 80 W	Out - ■ K3	InS - ■ K3	IN1	IN2	M1	M2	M3	M4	M5	M6	MA	MB	MC
5/6	◆ HI FRONT /F5	◆ HI REAR /F2	▲ SUB 24 dB F1 BRIDGE 300Wx1	▲ SUB 24 dB F1	IN SUB	Front IN (R)	Rear IN (R)	→ ■	■	■	■	■	■	■	■	■
5/6	◆ WOOFER FRONT /F5 F4	◆ MID & TW FRONT /F6	▲ SUB 24 dB F1 BRIDGE 300Wx1	▲ HI REAR /F2	IN SUB	Front	Rear Not used →	→ ■	■	■	■	■	■	■	■	■
6	◆ MID & TW FRONT /F6	◆ HI REAR /F2	◆ WOOFER FRONT /F5 F4	▲ SUB 24 dB F1	IN SUB	Front	Rear Not used →	→ ■	■	■	■	■	■	■	■	■
5/6	◆ MID & TW FRONT /F6	▲ SUB 24 dB F1 BRIDGE 200Wx1	◆ WOOFER FRONT /F5 F4	▲ HI REAR /F2	IN SUB	Front	Rear Not used →	→ ■	■	■	■	■	■	■	■	■

Note: ◆ Channels are driven by PC36 (PC36 always takes signal from IN1)
▲ Sub is driven by IN1 + IN2 NO FADING SUB (with active Constant Bass)

Multichannel Configurations

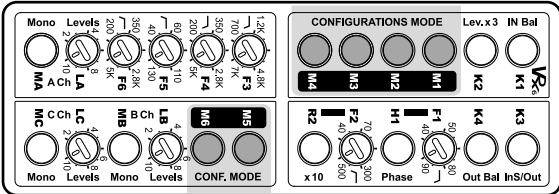
N°	A Channels	B Channels	C Channels	PRE OUT	IN SUB	INPUTS		CONFIGURATION MODE						MONO - STEREO		
Ch	2 x 65 W	2 x 65 W	2 x 80 W	Out - ■ K3	InS - ■ K3	IN1	IN2	M1	M2	M3	M4	M5	M6	MA	MB	MC
6	◆ MID FRONT /F6 F3	◆ TW FRONT /F2	◆ WOOFER FRONT /F5 F4	▲ SUB 24 dB F1	IN SUB	Front	Sub level → Not used →	→ ■	■	■	■	■	■	■	■	■
5/6	◆ WOOFER FRONT /F5 F4	◆ MID FRONT /F6 F3	▲ SUB 24 dB F1 BRIDGE 300Wx1	▲ TW FRONT /F2	IN SUB	Front	Sub level → Not used →	→ ■	■	■	■	■	■	■	■	■
5/6	◆ MID FRONT /F6 F3	▲ SUB 24 dB F1 BRIDGE 200Wx1	◆ WOOFER FRONT /F5 F4	▲ TW FRONT /F2	IN SUB	Front	Sub level → Not used →	→ ■	■	■	■	■	■	■	■	■

Note: ◆ Channels are driven by PC36 (PC36 always takes signal from IN1).
▲ Sub is driven by IN1 + IN2.
IN2 = **Sub level:** Sub is driven by IN1 + IN2. Fader is used to adjust sub level.
IN2 = **Not used:** Sub and Front driven by IN1.

A, B and C bridged amplifiers configurations

MA, MB and MC on position 2 (mono)

N°	A Channels	B Channels	C Channels	PRE OUT	IN SUB	INPUTS		CONFIGURATION MODE						MONO - STEREO		
Ch	1 x 200W	1 x 200W	1 x 300W	Out - ■ K3	InS - ■ K3	IN1	IN2	M1	M2	M3	M4	M5	M6	MA	MB	MC
3	HI LEFT /F5	HI RIGHT /F2	SUB 24 dB F1	SUB 24 dB F1	IN SUB	Left IN (R)	Right IN (R)	→ ■	■	■	■	■	■	■	■	■



■ = Pushed switch.
○ = Released switch.
● = Switch involved in configurations.

GENERAL FEATURES

Conformity with “E” norms

VRx models have a RF filter which makes them suitable to the new norms about radio-frequency disturbances emission inside cars before any others. A “common mode”, adequately dimensioned filter choke was inserted next to power supply input in order to prevent sudden voltage drops which commonly occur in similar circuit typologies.

Thermal limiter onto transformers

A very effective protection circuit was put onto transformers to prevent them from exceeding temperatures which might be dangerous for the amplifier integrity. This circuit intervenes by having VRx stop; the amplifier will start to function again only after the necessary cooling and reset operation (on and off again) will have to be carried out.

LNS (Line Noise Suppressor) circuit

LNS circuit allows the system low frequency disturbances rejection, reducing the ordinary noise due to car electrical parts (alternator, electronic injection, etc.). It does not affect sound and is effective in most cases. The special switch which is onto all models except VRx 6.420 (where it is not indicated since it is constantly active) permits to check if its intervention is necessary in case there are several VRx configured in cascade.

TPC.2 (Twin Power Controller) power supply stage handling system

TPC.2 allows to increase power supply stage handling speed (10 times approx.). This implies higher available impulsive power and lower stress of filter capacitors.

OCN (Off Current Null) and DVP (Damaging Voltage Protection) circuits

Thanks to OCN circuit, VRx models are the only ones to be in conformity with max absorption new standards when amplifier is off. Their value (0.00005A) makes them be 10 times below the maximum allowed limit. DVP circuit protects VRx amplifiers from voltage increases and electrostatic discharges.

Synchro-PWM power supply

Power supply stage consists of two totally separate and synchronised sections: one for positive and one for negative voltages. It is therefore possible to satisfy the final stage current demands more promptly, guaranteeing higher energy and speed with low frequencies.

Final stage driver modules: LD1.2 and DHE.1

Final stage driver modules (LD1.2 for VRx2-4-6; DHE.1 for VRx1) sum up all **audison**’s experience of amplified sound characterisation. Subjected to continuous studies and improvements, they further increase linearity and acoustic impact with low frequencies in the current VRx version.

DFL (Distortion Frequency Limiter) circuit

DFL circuit is a real electronic protection for speakers. It limits max distortion factor to 6% onto low frequencies and to 2% onto high ones. This implies constant and systematic control onto all audio range and wide safety margin for all speakers in the system.

Sub input (VRx6.420)

VRx6.420 PRE OUT output can be used as IN Sub input in order to use this model with the head units which have a third preamplified output for the subwoofer, exploiting the amplifier internal filter.

RGP input stages protection (Resettable Ground Protection)

RGP is an electronic protection able to detect high direct current passage onto input ground; it acts by putting the device in “stand by” condition (safety). The main feature of this circuit is its being able to work even when the amplifier is off, allowing the interruption of current passage towards input stages in case of power supply transformers short circuit. It perfectly guarantees the system safety since it consists of several sensors.

Three way, big size terminal block

VRx terminal block can accept cables up to 2 gauge section. A third positive pole houses the external capacitor (+C) which, thus, directly acts onto power supply voltage seen by the amplifier. This minimises voltage drop and cable overheating. Fastening screws are protected by a polycarbonate door. Inside the terminal block there is also a location for a strip fuse which can be inspected through the device bottom, that protects electronic circuitry and external capacitor. This solution allows the installation to be cleaner and the terminal block-fuse holder system to have 300A approx. max capacity.

Short guide under wooden strip

See owner's manual before any adjustment

[illegible]

Figure 1 displays the control panels for the 12 dB stereo F3 and F4 filters, arranged in a 4x2 grid. The left column shows the filter controls (F3, F4, F5, F6) and the right column shows the level controls (M5, M6, LB, MB, LA, LC).

Filter Controls (Left Column):

- F3:** 12 dB stereo. Frequency knob: 1.2K, 2.4K, 2.8K, 3.5K, 4.8K, 6K, 7K. Range: - Hz -.
- F4:** 12 dB stereo. Frequency knob: 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000, 1100, 1200, 1300, 1400, 1500, 1600, 1700, 1800, 1900, 2000, 2100, 2200, 2300, 2400, 2500, 2600, 2700, 2800, 2900, 3000, 3100, 3200, 3300, 3400, 3500, 3600, 3700, 3800, 3900, 4000, 4100, 4200, 4300, 4400, 4500, 4600, 4700, 4800, 4900, 5000, 5100, 5200, 5300, 5400, 5500, 5600, 5700, 5800, 5900, 6000, 6100, 6200, 6300, 6400, 6500, 6600, 6700, 6800, 6900, 7000, 7100, 7200, 7300, 7400, 7500, 7600, 7700, 7800, 7900, 8000, 8100, 8200, 8300, 8400, 8500, 8600, 8700, 8800, 8900, 9000, 9100, 9200, 9300, 9400, 9500, 9600, 9700, 9800, 9900, 10000, 10100, 10200, 10300, 10400, 10500, 10600, 10700, 10800, 10900, 11000, 11100, 11200, 11300, 11400, 11500, 11600, 11700, 11800, 11900, 12000, 12100, 12200, 12300, 12400, 12500, 12600, 12700, 12800, 12900, 13000, 13100, 13200, 13300, 13400, 13500, 13600, 13700, 13800, 13900, 14000, 14100, 14200, 14300, 14400, 14500, 14600, 14700, 14800, 14900, 15000, 15100, 15200, 15300, 15400, 15500, 15600, 15700, 15800, 15900, 16000, 16100, 16200, 16300, 16400, 16500, 16600, 16700, 16800, 16900, 17000, 17100, 17200, 17300, 17400, 17500, 17600, 17700, 17800, 17900, 18000, 18100, 18200, 18300, 18400, 18500, 18600, 18700, 18800, 18900, 19000, 19100, 19200, 19300, 19400, 19500, 19600, 19700, 19800, 19900, 20000, 20100, 20200, 20300, 20400, 20500, 20600, 20700, 20800, 20900, 21000, 21100, 21200, 21300, 21400, 21500, 21600, 21700, 21800, 21900, 22000, 22100, 22200, 22300, 22400, 22500, 22600, 22700, 22800, 22900, 23000, 23100, 23200, 23300, 23400, 23500, 23600, 23700, 23800, 23900, 24000, 24100, 24200, 24300, 24400, 24500, 24600, 24700, 24800, 24900, 25000, 25100, 25200, 25300, 25400, 25500, 25600, 25700, 25800, 25900, 26000, 26100, 26200, 26300, 26400, 26500, 26600, 26700, 26800, 26900, 27000, 27100, 27200, 27300, 27400, 27500, 27600, 27700, 27800, 27900, 28000, 28100, 28200, 28300, 28400, 28500, 28600, 28700, 28800, 28900, 29000, 29100, 29200, 29300, 29400, 29500, 29600, 29700, 29800, 29900, 30000, 30100, 30200, 30300, 30400, 30500, 30600, 30700, 30800, 30900, 31000, 31100, 31200, 31300, 31400, 31500, 31600, 31700, 31800, 31900, 32000, 32100, 32200, 32300, 32400, 32500, 32600, 32700, 32800, 32900, 33000, 33100, 33200, 33300, 33400, 33500, 33600, 33700, 33800, 33900, 34000, 34100, 34200, 34300, 34400, 34500, 34600, 34700, 34800, 34900, 35000, 35100, 35200, 35300, 35400, 35500, 35600, 35700, 35800, 35900, 36000, 36100, 36200, 36300, 36400, 36500, 36600, 36700, 36800, 36900, 37000, 37100, 37200, 37300, 37400, 37500, 37600, 37700, 37800, 37900, 38000, 38100, 38200, 38300, 38400, 38500, 38600, 38700, 38800, 38900, 39000, 39100, 39200, 39300, 39400, 39500, 39600, 39700, 39800, 39900, 40000, 40100, 40200, 40300, 40400, 40500, 40600, 40700, 40800, 40900, 41000, 41100, 41200, 41300, 41400, 41500, 41600, 41700, 41800, 41900, 42000, 42100, 42200, 42300, 42400, 42500, 42600, 42700, 42800, 42900, 43000, 43100, 43200, 43300, 43400, 43500, 43600, 43700, 43800, 43900, 44000, 44100, 44200, 44300, 44400, 44500, 44600, 44700, 44800, 44900, 45000, 45100, 45200, 45300, 45400, 45500, 45600, 45700, 45800, 45900, 46000, 46100, 46200, 46300, 46400, 46500, 46600, 46700, 46800, 46900, 47000, 47100, 47200, 47300, 47400, 47500, 47600, 47700, 47800, 47900, 48000, 48100, 48200, 48300, 48400, 48500, 48600, 48700, 48800, 48900, 49000, 49100, 49200, 49300, 49400, 49500, 49600, 49700, 49800, 49900, 50000, 50100, 50200, 50300, 50400, 50500, 50600, 50700, 50800, 50900, 51000, 51100, 51200, 51300, 51400, 51500, 51600, 51700, 51800, 51900, 52000, 52100, 52200, 52300, 52400, 52500, 52600, 52700, 52800, 52900, 53000, 53100, 53200, 53300, 53400, 53500, 53600, 53700, 53800, 53900, 54000, 54100, 54200, 54300, 54400, 54500, 54600, 54700, 54800, 54900, 55000, 55100, 552

YH Phase adjustment
- Degrees -
40+200 Hz (factory preset); 200+800 Hz; 800+4500 Hz 3 pos. internal presets

WF

Parametric equaliser

JF **Frequency adjustment**
- Hz -

JB ☒ **ON** **PRM3** on
☐ **OFF** **PRM3** by-pass

JM ☒ **ON** **Activates JX**
☐ **OFF** **20 Hz + 200 Hz**

JL **Level adjustment**
- dB -

JX ☒ **x 100** **2 KHz + 20 KHz**
☐ **x 10** **200 Hz + 2 KHz**

JQ **Q adjustment**

[illegible]

VRx6.420

Controls and functions

Controls description

K1 - Bal/Unbal inputs switch.

K2 - It selects **sensitivity range** of all inputs.

K3 - In Sub/Pre Out switch. ABS sockets, normally used for Pre output, can be also employed as additional input for Sub.

K4 - Bal/Unbal switch for **PRE output**. It is possible to have a balanced output signal even with an unbalanced input one. Put **K4** on **B** (Balanced) only if **K3** is on **O** (Out)

M1, M2, ..., M6 - Switches to select the amplifier functioning modes. M1, M2 and M3 act on crossover and on inputs connection; M4, M5 and M6 act on outputs. Please see the manual in order to use them; it indicates VRx6 main functioning modes.

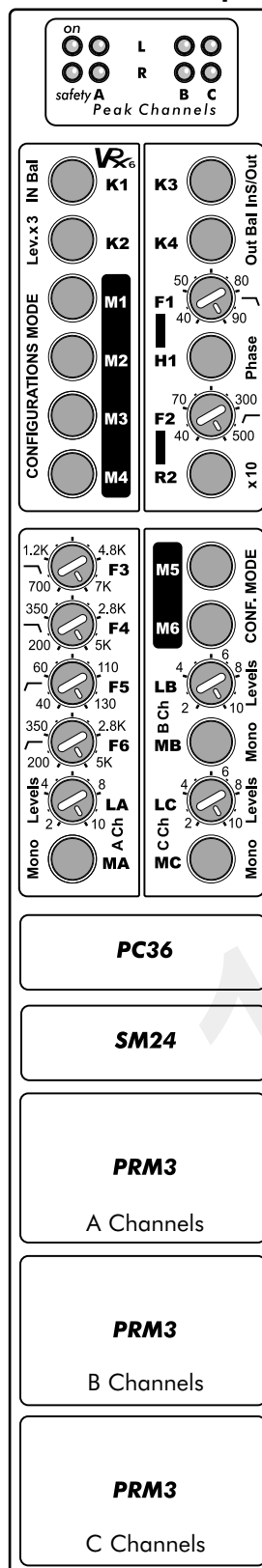
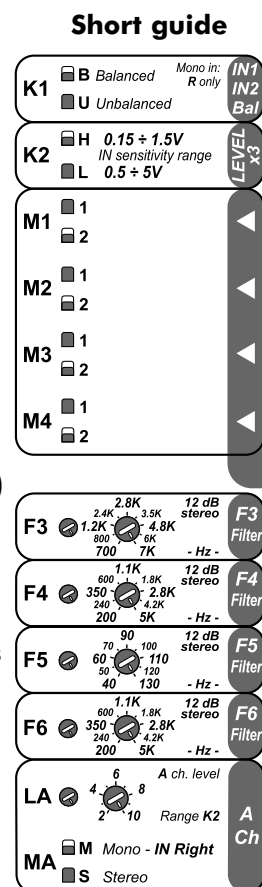
F1 - Mono LO-PASS filter for sub, **24dB/oct.** slope.

F2, F3, F4, F5, F6 - 12dB/oct. stereo crossover filters. The pairs (F4, F5) and (F3, F6) form two band-passes.

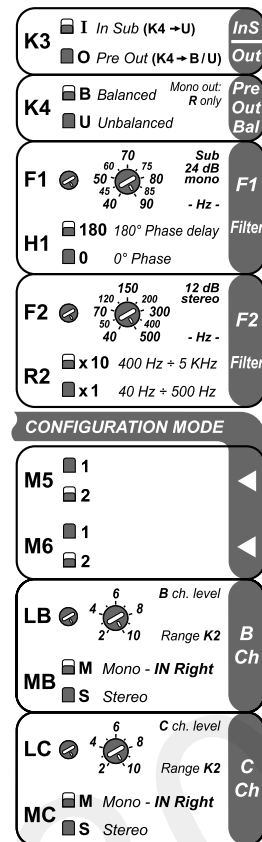
LA, LB, LC - Input **sensitivity adjustment** of A and B amplifiers pairs respectively.

MA, MB, MC - **Mono/Stereo** switches of A, B and C amplifiers respectively.

Controls under wooden strip



Short guide



Leds

ON - Green led

It indicates the amplifier is on.

SAFETY - Red led

It indicates protection intervention: excessively high temperature or output anomalies (direct current, short circuit or dangerously low load impedance). Protection intervention stops the amplifier functioning. Switch the amplifier off; when anomaly is eliminated, switch the amplifier on again.

PEAK CHANNELS LA - LB - RA - RB - Orange leds

They light up when one or more VRx amplifiers are about to attain distortion threshold. They are useful to adjust inputs sensitivity.

VRx

audison

2000 EDITION

VRx MODULAR EXTENSIONS: CONTROL EXTENSIONS

- PRM3 stereo parametric equaliser
- SM24 24dB/oct. mono subsonic filter
- PC36 360° phase controller
- DSC1 sub dynamic control
- VCRDK digital remote volume control kit (VCA1D module + VCRD adjuster)
- VCA1D VCA1D module VRx - BTX2
- MAC2 forced air modulated cooling system (2 fans with spacers to put into Terminals and Raccords, plus TFC control module)
- BTX2 stereo balancer/preamplifier

WARNING!

Apply to Audison's specialised installation centres for the installation and configuration of modular extensions described in this section

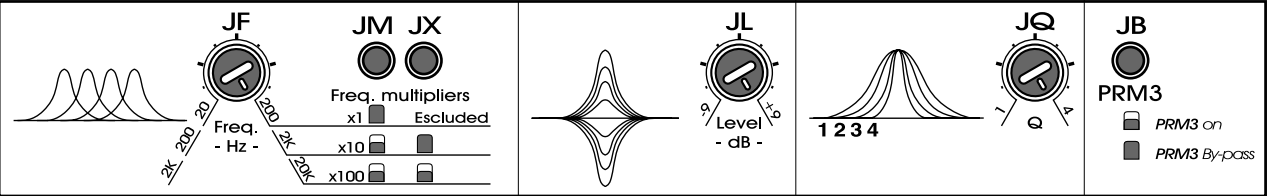
VRx Control Extensions

PRM3 One band stereo parametric equaliser with frequency, gain and bandwidth (Q) control.

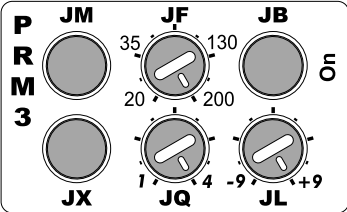
Stereo parametric equaliser

Frequencies ranges: 20Hz÷200Hz; 200Hz÷2KHz; 2 kHz÷20KHz
Gain: ± 9 dB
Q adjustment: 1÷4

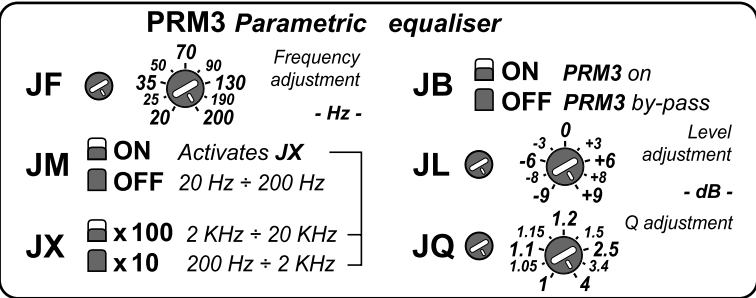
Functions diagram



Controls panel



Short guide



Controls description

JF - Frequency adjustment.
JM - Switch for activating frequency ranges multiplier.
JB - Active (ON)/BYPASS (OFF) switch.
JX - Frequency ranges switch.
JL - Level adjustment.
JQ - Q adjustment.

VRx Control Extensions

SM24 Monophonic subsonic filter for subwoofer.

Mono subsonic filter

24dB/oct. HI-PASS
Frequency range: 14 Hz ÷ 36 Hz

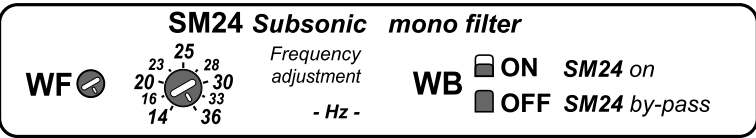
Controls panel



Functions diagram



Short guide



Controls description

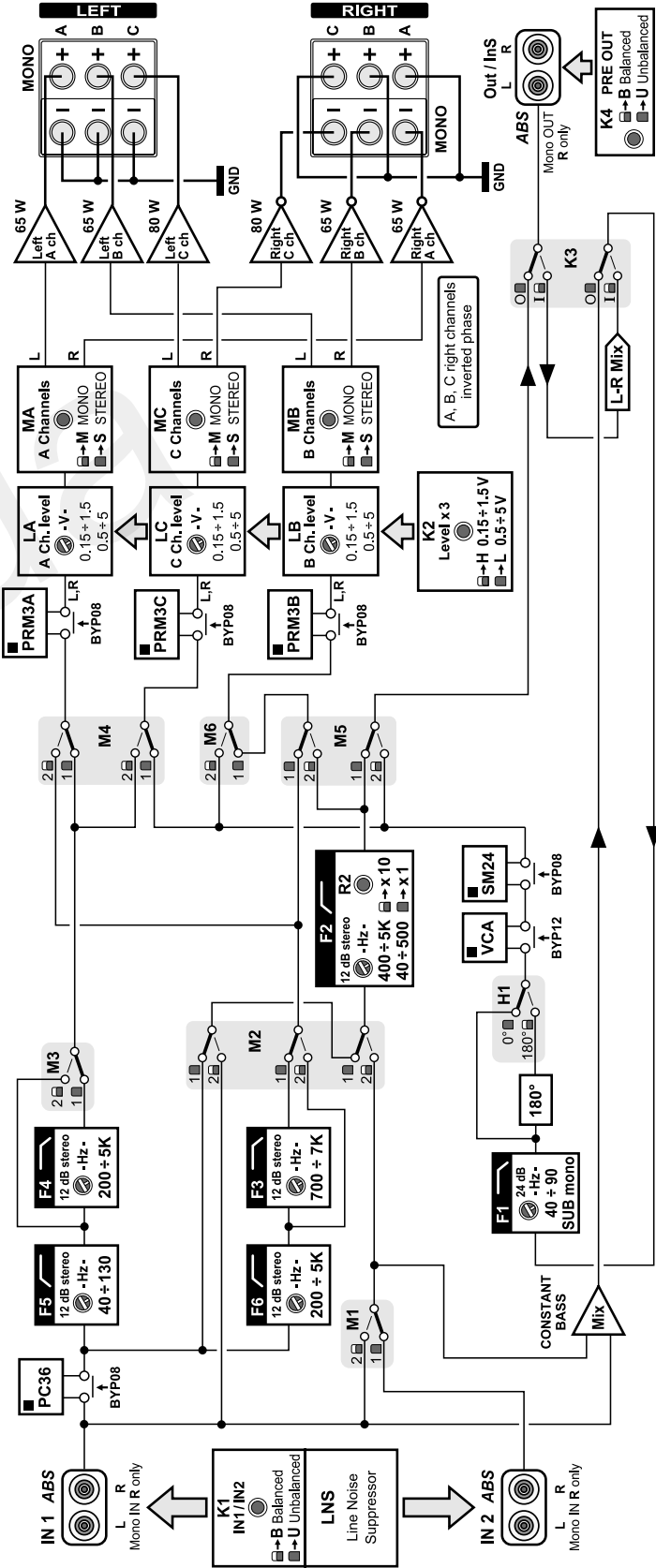
WF - Frequency adjustment.
WB - SM24 ACTIVE (ON)/BYPASS (OFF) switch.

SM24 is monophonic since it was designed in order to be used with subwoofer. It **only acts on the Right channel** of preamplified signal, therefore:

- the amplifier it drives must be configured in **mono**;
- if its output is sent to an external amplifier (possible solution with VRx4 and VRx6), **only the Right Channel** of pre output must be used.

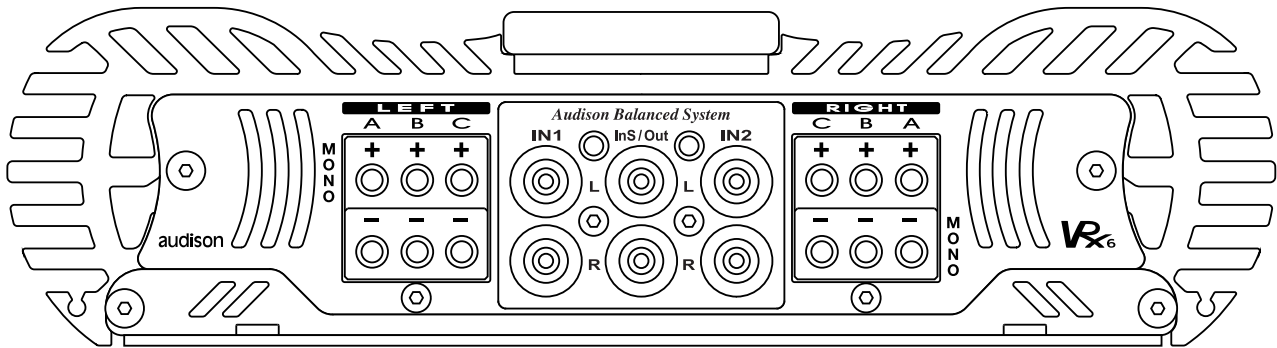
VRx6.420

Block diagram



Optional modules

VRx6.420



Technical features

POWER SUPPLY	11 ÷ 15 VDC
IDLING CURRENT	2.6 A
IDLING CURRENT WHEN OFF	< 0.04 mA
CONTINUOUS NOMINAL POWER Tol.: (+10%/-5%); 0.3% THD; 12 VDC	
A,B,C stereo ch. on 4 Ohms	2x65W + 2x65W + 2x80 (RMS)
CONTINUOUS POWER 6 CHANNELS Tol.: (+10%/-5%); 1% THD; 12.6 VDC	
A,B,C stereo ch. on 4 Ohms	2x75W + 2x75W + 2x85 (RMS)
CONTINUOUS POWER 6 CHANNELS Tol.: (+10%/-5%); 1% THD; 13.8 VDC	
1) A,B,C stereo ch. on 4 Ohms	2x75W + 2x75W + 2x85 (RMS)
2) A,B,C stereo ch. on 2 Ohms	2x120W + 2x120W + 2x150 (RMS)
3) A,B stereo ch. on 4 Ohms, C stereo ch. on 2 Ohms	2x75W + 2x75W + 2x165 (RMS)
4) A,B stereo ch. on 4 Ohms, C stereo ch. on 1 Ohm	2x75W + 2x75W + 2x250 (RMS)
CONTINUOUS POWER 5 CHANNELS Tol.: (+10%/-5%); 1% THD; 13.8 VDC	
5) A,B stereo ch. on 4 Ohms, C bridged ch. on 4 Ohms	2x75W + 2x75W + 1x330 (RMS)
6) A,B, stereo ch. on 4 Ohms, C bridged ch. on 2 Ohms	2x75W + 2x75W + 1x500 (RMS)
7) A,B stereo ch. on 2 Ohms, C bridged ch. on 2 Ohms	2x110W + 2x110W + 1x430 (RMS)
CONTINUOUS POWER 3 CHANNELS Tol.: (+10%/-5%); 1% THD; 13.8 VDC	
8) A,B,C bridged ch.on 4 Ohms	1x240W + 1x240W + 1x300 (RMS)
9) A,B bridged ch. on 4 Ohms, C bridged ch. on 2 Ohms	1x220W + 1x220W + 1x430 (RMS)
THD DISTORTION (1 kHz; 90% Nominal Power)	0.02%
IMD DISTORTION (90% Nominal Power)	0.04%
BANDWIDTH (-3dB; Nominal Power)	2 Hz ÷ 70 kHz
S/N RATIO (A weighed - 1 VRMS input)	100 dBA
REMOTE IN	7 ÷ 15 VDC
REMOTE OUT	12 VDC - 150 mA
INPUT SENSITIVITY (high)	0.15 ÷ 1.5 VRMS
INPUT SENSITIVITY (low)	0.50 ÷ 5.0 VRMS
INPUT IMPEDANCE	15 kOhms
LOAD IMPEDANCE (stereo) ch.A and ch.B	8 - 4 - 2 Ohms
LOAD IMPEDANCE (bridged) ch.A and ch.B	8 - 4 Ohms
LOAD IMPEDANCE (stereo) ch.C	8 - 4 - 2 - 1 Ohm
LOAD IMPEDANCE (bridged) ch.C	8 - 4 - 2 Ohms
SIZE (W x H x D) mm.	240 x 64 x 585
SIZE (W x H x D) inches	9.4 x 2.5 x 23
INTERNAL FUSE	80A

ABSORBED CURRENT AT MAXIMUM MUSICAL POWER - EXTERNAL FUSE CHOICE

13.8V - configuration 1)	.33A
13.8V - configurations 2) and 8)	.64A
13.8V - configurations 3) and 5)	.47A
13.8V - configurations 4) and 6)	.66A
13.8V - configurations 7) and 9)	.80A

Measures were realised through a test-set consisting of Rohde & Schwarz UPD audio analyser, HP 6453A power supply (200A continuous) and 14F capacitive booster made with **audison cable Superfarad** capacitors.

Please always choose a fuse of equal or slightly higher value (max 10%) than indicated.

Note:
The use of MAC2 cooling system is strongly recommended when the amplifier is employed at full power with 1 Ohm stereo or 2 Ohm bridged loads.

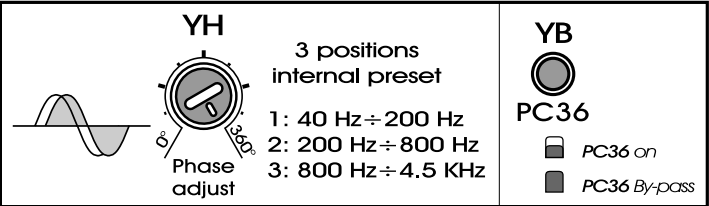
VRx Control Extensions

PC36 Analogue phase controller acting on the higher frequencies of a multiamplified audio chain.

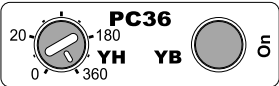
360° phase controller

Phase range: 0°÷360°
Frequencies ranges: 40Hz÷200Hz; 200Hz÷800Hz; 800Hz÷4,5kHz

Functions diagram



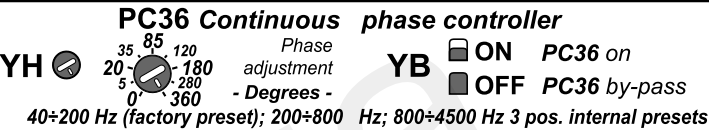
Controls panel



Controls description

YH - Phase adjustment.
YB - Switch: PC36 ACTIVE (**ON**)/BYPASS (**OFF**).

Short guide

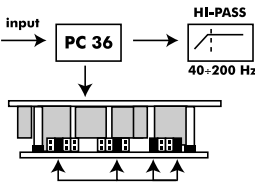


PC36 module is able to vary relative phase between two ways of a multiamplified system. Its purpose is to make the emission of a speakers system, located in different places in car, more homogeneous. Generally speaking, PC36

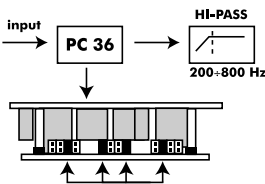
module allows you to put the HI-PASS filtered way with electronic crossover in phase with regards to the one which is LO-PASS filtered in a bi-amplified system. It is possible to use two PC36 in a three way amplified system: one to align tweeters with regards to midwoofers and one to align midwoofers with regards to subwoofer.

Used into VRx4 and VRx6, PC36 allows the front system phase alignment with regards to subwoofer. Applied into VRx2 and VRx1, it permits to put all crosses of a multiamplified system in phase if it is used together with HI-PASS sections of HL12, HL24, BH12 modules or with BAND-PASS sections of BH12.

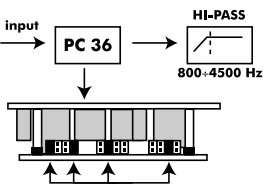
PC36 frequency range must be set according to the cut-off frequency chosen for HI-PASS filter it must be used with.



Freq. range 40Hz÷200Hz

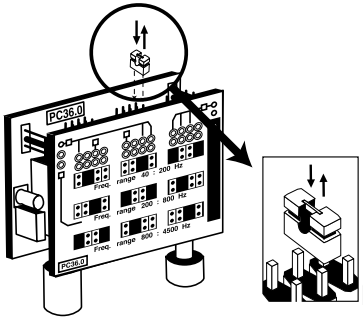


Freq. range 200Hz÷800Hz



Freq. range 800Hz÷4.5kHz

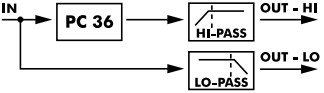
Pre-select frequencies ranges through jumpers according to cut-off frequencies of the HI-PASS filter it is used with. PC36 is originally set on 40 ÷ 200 Hz.



WARNING

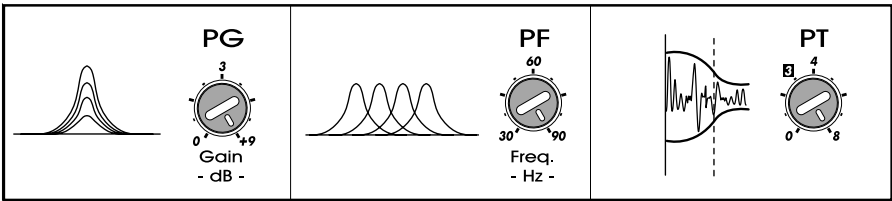
The use of PC36 into VRx1 and VRx2 depends on the installation of HL12, BH12, HL24 multichannel extensions, since PC36 acts only on HI-PASS section.

Where PC36 acts:

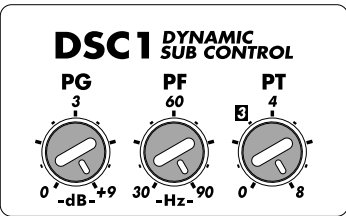


Dynamic Sub Control

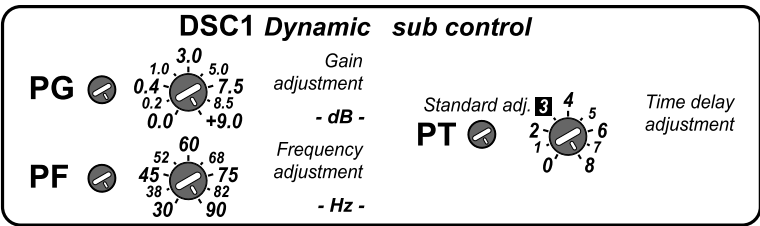
Functions diagram



Controls panel



Short guide



Controls description

- PG- Gain adjustment
- PF - Frequency adjustment
- PT - Time delay adjustment

It is a parametric pole which permits to make up for subwoofers volumetric inadequacy by having their low frequencies gain extent and impact. DSC1 adjusts its intervention by increasing it at low signal levels and avoiding the amplifier saturation. Its controls allow to choose frequency, intervention and gain.

VRx
audison

2000 EDITION VRx6.420



VRx Control Extensions **VCRDK and VCA1D**

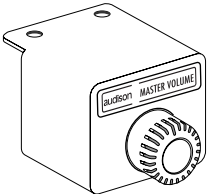
Kit for sub remote volume control, supplied with VCA (Voltage Controlled Amplifier) with digital control.

Digital remote volume control kit

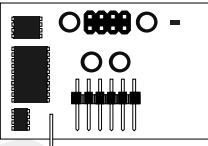
VCRDK

It consists of VCRD adjuster and of VCA1D, a high performances digital control module. It can be used to adjust the volume of sub or of every VRx amplifier in the system. If it is installed into BTX2, it permits to realise Master Volume Control. Thanks to a single VCRD adjuster connected to the main BTX2 (Master), supplied with VCA1D module (VCRKD kit), it is possible to adjust the volume of other stereo ways through as many secondary BTX2 (Slave) connected in cascade and supplied with VCA1D modules. **VCA1D modules are available also individually.** Master Volume Control configuration is necessary when you want to have volume independent general adjustment in multichannel systems for Front, Rear and Sub outputs of head units supplied with them. The control microprocessor permits to store and recall a level; this function is useful to keep the reference calibration in a multiamplified system, for instance. If the latter totally consists of VRx1 or VRx2 amplifiers, the installation of one VCRDK for every amplifier would allow the level adjustment of each way of the system. Some stickers allow VCRD customisation according to its function. It is also possible to remove its housing in order to easily mount it behind a panel, while VCRD front panel stays visible.

VCRD



VCA1D



audison MASTER VOLUME

audison TWEETER

audison SUBWOOFER

audison SUPERTWEETER

audison WOOFER

audison FRONT VOLUME

audison MIDBASS

audison REAR VOLUME

audison MIDRANGE

audison CENTRE CHANNEL

VRx Control Extensions

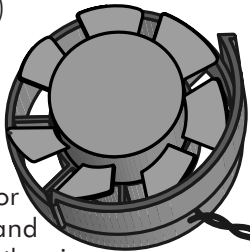
MAC2

System temperature control kit.

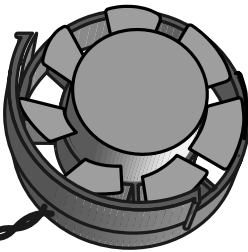
Forced air cooling system

It consists of a cooling group formed by a pair of fans with spacers and by a temperature control module (TFC) to put inside VRx amplifiers. The fans group is placed inside Raccords and Terminals and adapted to several lengths through spacers. VRx amplifiers have a power supply connector dedicated to the cooling group under the power supply terminal blocks panel. Raccords and Terminals act as ducts for cooling air and have the esthetical function of covering connection cables. One terminal (TRM4, TRM6) with MAC2 kit is enough for the cooling system correct functioning. If you like to put two VRx one after the other, you have to use a suitably long

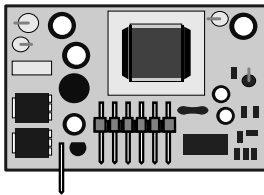
Raccord (RC08, RC10, RC12) which, if necessary, can also be supplied with MAC2, installed into the second VRx. The end of the second VRx (inputs and warm air output side) is able to accept another Terminal (TRM4, TRM6) for esthetical reasons. Raccords and Terminals are chosen according to the size of used cables and connectors, while the installation of one or more MAC2 depends on VRx amplifiers configuration.



Fans group



TFC module



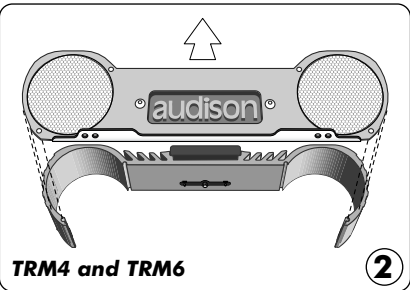
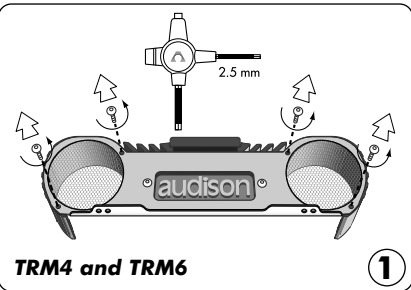
Fans group insertion inside Terminals and Raccords

INSTRUCTIONS

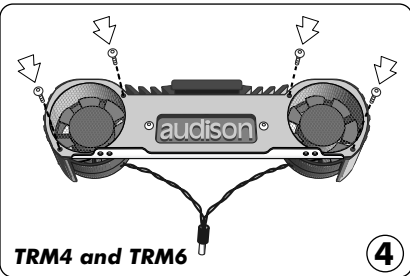
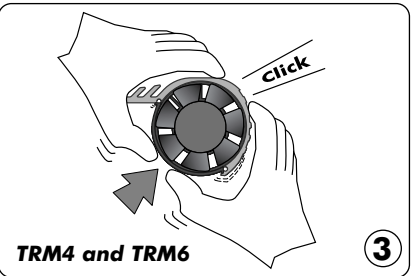
Put the Terminal or the Raccord onto a flat surface. (As far as Terminals are concerned, the side with grilles must be facing upwards). Remove the front plate fixed through four screws by using multispanner supplied with the devices (pict. 1 and 2). Place the fans groups onto the flat surface and push them in order to insert them inside the extension body you are using, so that the fans group support guides snap into the slots (pict. 3).

Warning!: Do not push hard onto the fans wheel while mounting the fans group.

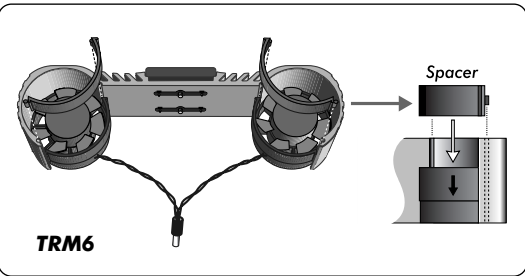
General procedure for insertion inside Terminals



After inserting the fans, mount Terminals front plate back again (pict. 4). If parts were assembled in the right way, the fans wheels will be in the same side as the grilles of the plate itself.

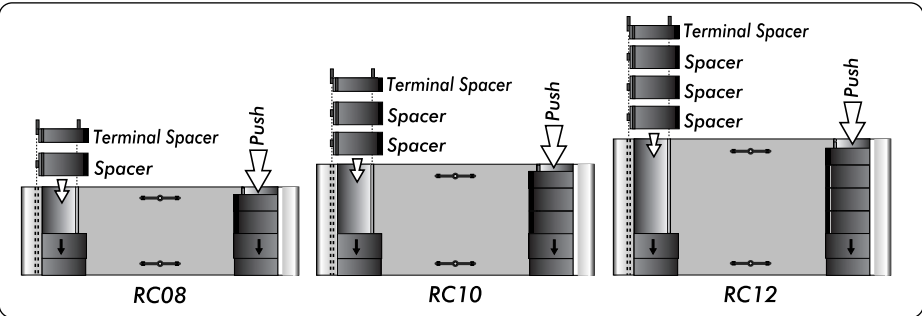


Remark for TRM4:
Do not turn the Terminal body while mounting it. Its correct direction is when the screw in the wooden strip is closer to the flat surface the terminal lies onto (pict. 2).



Remark for TRM6:
Insert the special spacers inside TRM6 in order to avoid air flux dispersion by making them slide onto the terminal proper slots until they touch the fans.

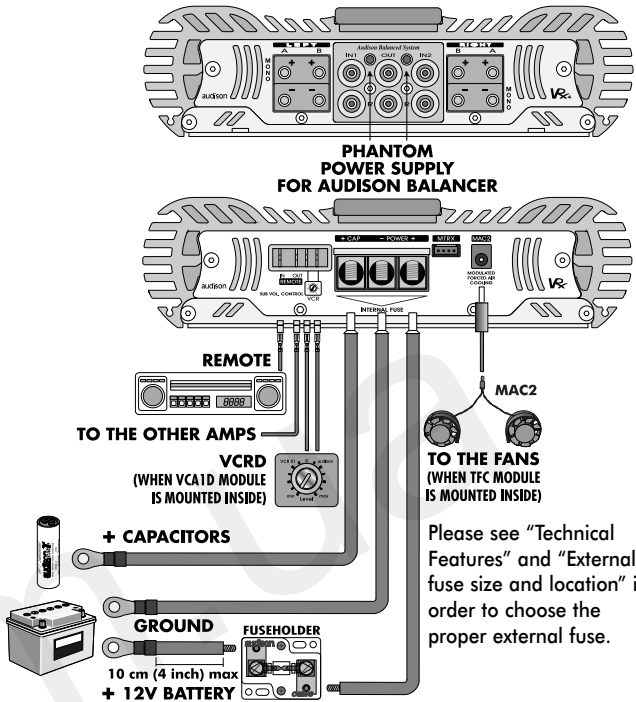
General procedure for insertion inside Raccords



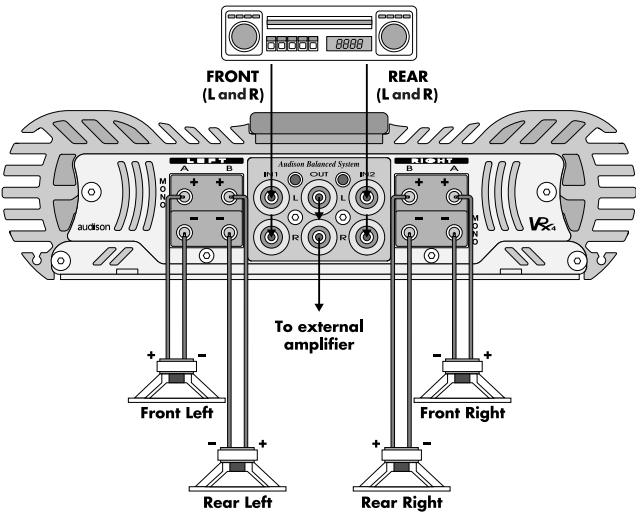
Remark for Raccords:
Insert the fans and a sufficient number of spacers into the Raccord by making them slide onto the proper slots, in order to avoid air flux dispersion. The last spacer must always be a Terminal Spacer.

VRx4.300 connections

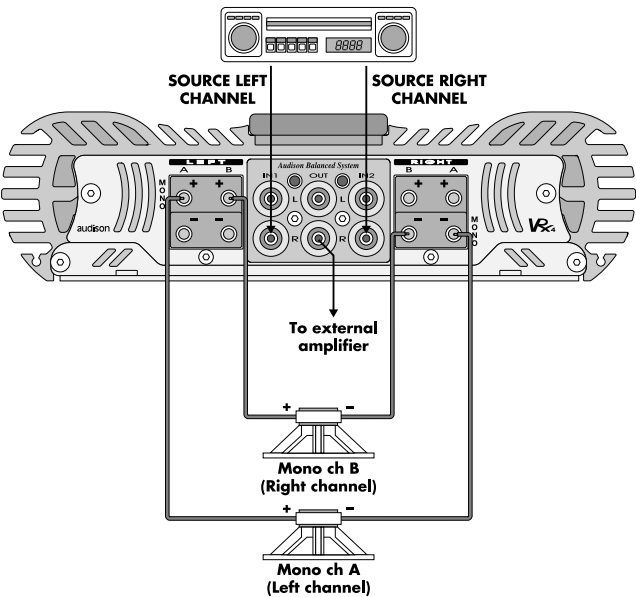
Power supply, remote and accessories



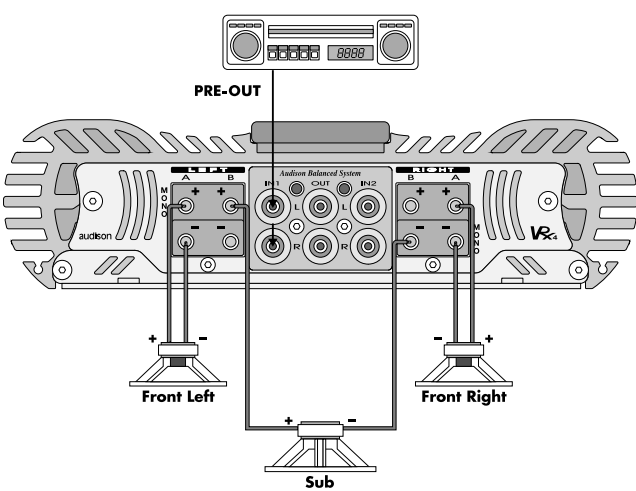
Inputs and outputs: stereo connection



Inputs and outputs: bridge connection



Inputs and outputs: Front + Sub



WHERE TO PUT MODULAR EXTENSIONS
VRx4.300

VRx4CD-S VRx4 controls. They must not be removed.

LD1 VRx4 driver stages. They must not be removed.

CONTROL EXTENSIONS
PC36

CONTROL EXTENSIONS
SM24

CONTROL EXTENSIONS
PRM3 for A channels
PRM3 for B channels

CONTROL EXTENSIONS
Socket for:
VCA - VCA1D, given with VCRDK

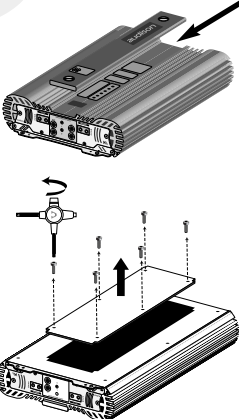
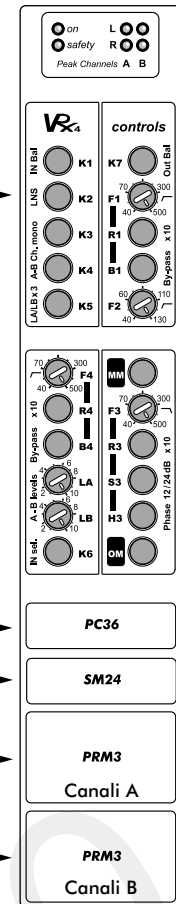
DMRX socket for a future extension. Do not put any modules into it.

TPC VRx4 power supply controller. It must not be removed.

CONTROL EXTENSIONS
TFC
(supplied with MAC2)

Serial modules
Modular extensions
BYP08 bridge: 4+4 Pins
BYP12 bridge: 6+6 Pins

Controls under wooden strip



VRx Control Extensions

BTX2

Stereo balancer/preamplifier with audison ABS system.

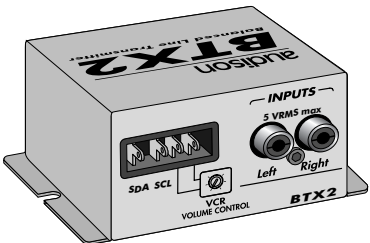
Stereo balancer/preamplifier

FEATURES

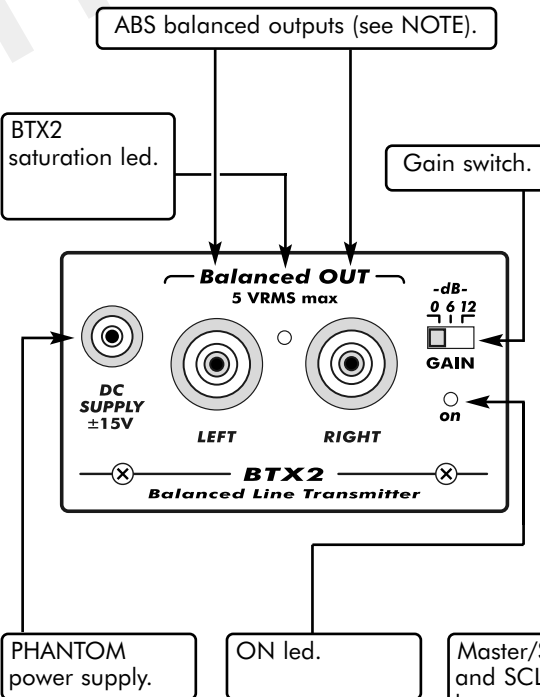
BTX2 is a device which allows you to change a pre output of an ordinary head unit into a balanced output with **audison ABS** system. In this way it is possible to realise an ABS balanced connection between signal source and amplifier input by using **audison cable ABS** extensions.



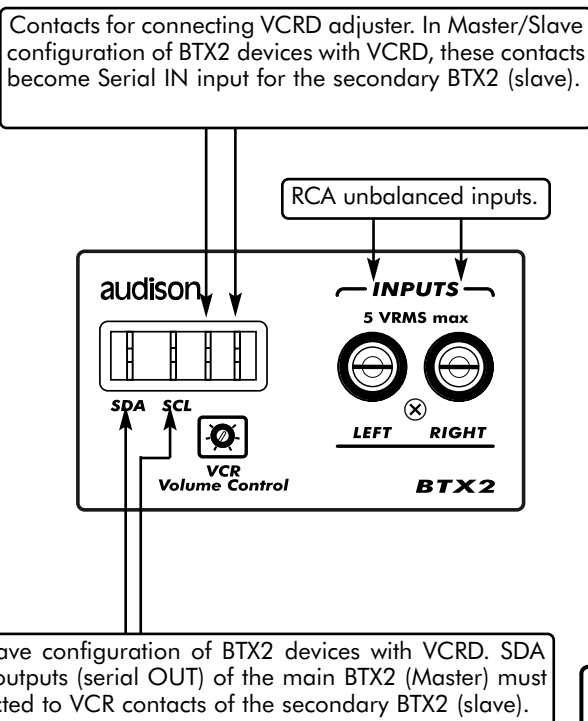
BTX2 has got **phantom power supply**: it is therefore necessary to connect it to **audison VRx** amplifiers proper output through **PH450** cable (given with BTX2). BTX2 has a three-step gain control, in order to interface with various sources. A led indicates outputs saturation (clipping). BTX2 allows also **Remove Volume Control** function, which permits to adjust the level of a stereo or a mono line. In order to activate this function, you need to use the VCR (Remote Volume Control) kits: VCRDK.



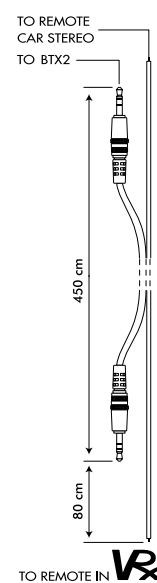
Front panel



Rear panel



PH450



NOTE:

It is necessary to insert an ABS JACK (**audison cable**) in order to get a balanced signal. It is possible to have an unbalanced signal by inserting a standard PIN RCA into ABS sockets. In this case, output voltage value decreases; it can be increased again through GAIN switch.

PH150(150cm) and PH650(650cm) are available in **audison cable** line, besides PH450(450cm)

VRx4.300

24dB/oct. Mono SUB filter slope configurations

K6 = ☐ 2 INPUTS: IN1 Front L and R inputs, IN2 Rear L and R inputs; non fading sub.*					
K6 = ☐ 1 INPUT: IN L and R inputs, IN2 not used; sub mix R+L.					
S3 (12-24dB/oct. SUB filter slope switch) = ☐ K4 (MONO/STEREO switch of B channels) = ☐					
K3 (MONO/STEREO switch of A channels) = ☐ R3 (F3 x 1/x10 LO-PASS frequency switch) = ☐					
Power Outputs	STEREO loudspeakers outputs		MONO loudspeakers outputs	STEREO line outputs	
N°	Ch "A" amps.		Ch "B" amps.	PREAMPLIFIED	
3	HI FRONT		SUB MONO 24 dB	HI REAR	

K6 = ☐ 2 INPUT: IN1 input Front L e R, IN2 input Rear L e R; non fading sub.*					
K6 = ☐ 1 INPUT: IN1 input L e R, IN2 not used; sub mix R+L.					
S3 (12-24dB/oct. SUB filter slope switch) = ☐ K4 (MONO/STEREO switch of B channels) = ☐					
K3 (MONO/STEREO switch of A channels) = ☐ R3 (F3 x 1/x10 LO-PASS frequency switch) = ☐					
Power Outputs	STEREO loudspeakers outputs		Signal out on RIGHT ch. (LEFT not used)		Switch config.
N°	Ch "A" amps.		Ch "B" amps.		PREAMPLIFIED
4	HI FRONT		HI REAR		SUB MONO 24 dB

K6 = ☐ INPUTS: use IN1 (R) for Left ch, use IN2 (R) for Right ch.					
S3 (12-24dB/oct. SUB filter slope switch) = ☐ K4 (MONO/STEREO switch of B channels) = ☐					
K3 (MONO/STEREO switch of A channels) = ☐					
Power Outputs	MONO loudspeakers outputs		MONO line outputs (LEFT not used)		Switch config.
N°	Ch "A" amps. Left section		Ch "B" amps. Right section		PREAMPLIFIED
2	HI - PASS		HI - PASS		SUB MONO 24 dB (RIGHT)

* with active Constant Bass

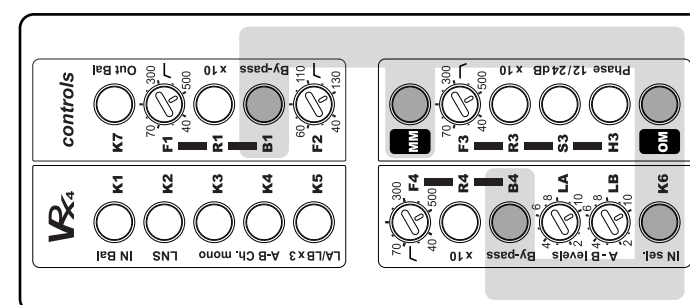
VRx4.300

12dB/oct. SUB filter slope configurations

* **Warning:** Using B channels in Mono (K4 = ☐) with 12dB/Oct. filter, signal for sub depends on Right input. If you move Balance onto the Left channel in this condition, sub will not play. It is therefore necessary to set B channels in stereo (K4 = ☐) in order to obtain the sum between Left and Right.

K6= ☐ 2 INPUTS: IN1 Front L and R inputs, IN2 Rear L and R inputs; non fading sub. K6= ☐ 1 INPUT: IN1 L and R inputs, IN2 not used.					
S3 (12-24dB/oct. SUB filter slope switch) = ☐ K4 (MONO/STEREO switch of B channels) = ☐ K3 (MONO/STEREO switch of A channels) = ☐					
Power Outputs	STEREO loudspeakers outputs		STEREO line outputs	Switch config.	
N°	Ch "A" amps.	Ch "B" amps.	PREAMPLIFIED	MM	OM
4	MID-HI FRONT Filter Bypass 40 Hz ÷ 5 kHz Power: 75 W + 75 W	WOOFER FRONT 40 Hz ÷ 130 Hz 40 Hz ÷ 5 kHz Power: 75 W + 75 W	HI REAR Filter Bypass 40 Hz ÷ 5 kHz Power: 75 W + 75 W	☐	☐
4	MID-HI FRONT Filter Bypass 40 Hz ÷ 5 kHz Power: 75 W + 75 W	HI-REAR Filter Bypass 40 Hz ÷ 5 kHz Power: 75 W + 75 W	WOOFER FRONT 40 Hz ÷ 130 Hz 40 Hz ÷ 5 kHz Power: 75 W + 75 W	☐	☐
4	HI FRONT Filter Bypass 40 Hz ÷ 5 kHz Power: 75 W + 75 W	HI REAR Filter Bypass 40 Hz ÷ 5 kHz Power: 75 W + 75 W	SUB 40 Hz ÷ 5 00 Hz Power: 75 W + 75 W	☐	☐
3/4	HI FRONT Filter Bypass 40 Hz ÷ 5 kHz Power: 75 W + 75 W	SUB 40 Hz ÷ 5 00 Hz Power: 250W (Mono) 75W+75W (Stereo)	HI REAR Filter Bypass 40 Hz ÷ 5 kHz Power: 75 W + 75 W	☐	☐

K6 = ☐ INPUTS: use IN1 (R) for Left ch, use IN2 (R) for Right ch.					
S3 (12-24dB/oct. SUB filter slope switch) = ☐ K4 (MONO/STEREO switch of B channels) = ☐ K3 (MONO/STEREO switch of A channels) = ☐					
Power Outputs	MONO loudspeakers outputs		MONO line outputs	Switch config.	
N°	Ch "A" amps. Left section	Ch "B" amps. Right section	PREAMPLIFIED	MM	OM
2	HI-PASS Filter Bypass 40 Hz ÷ 5 kHz Power: 250 W	HI-PASS Filter Bypass 40 Hz ÷ 5 kHz Power: 250 W	SUB 40 Hz ÷ 500 Hz	☐	☐



☐ = Pushed switch
☐ = Released switch
B1 = F1 filter BYPASS
B4 = F4 filter BYPASS
F1 = HI-PASS filter
F2 = HI-PASS filter of woofer BAND-PASS (MM = ☐), it does not work if MM = ☐
F3 = LO-PASS filter of woofer BAND-PASS (MM = ☐) or subwoofer LO-PASS filter (MM = ☐)
F4 = HI-PASS filter

VRx

audison

2000 EDITION

VRx MODULAR EXTENSIONS: MULTICHANNEL EXTENSIONS

(only for models: VRx1.500, VRx2.150, VRXx2.250 and VRx2.400)

- HL12 12 dB HI/LO-PASS crossover
- BH12 12 dB BAND/HI-PASS crossover
- LM24 24 dB LO-PASS MONO crossover
- HL24 12/24 dB HI/LO-PASS crossover
- BSA1 stereo balanced pre out repeater

WARNING!

Apply to Audison's specialised installation centres for the installation and configuration of modular extensions described in this section

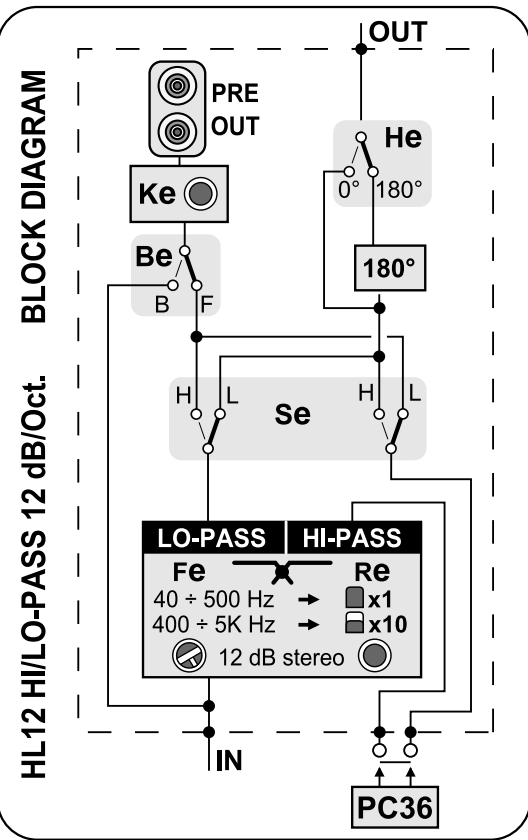
VRx1 - VRx2 Multichannel Extensions HL12

Crossover module for VRx1 and VRx2, with non independent HI/LO-PASS crossover frequency.

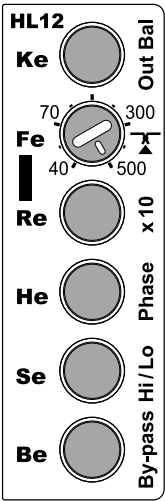
Crossover

12dB/oct. HI-PASS/LO-PASS
Frequencies ranges: 40 Hz ÷ 500 Hz; 400 Hz ÷ 5 kHz

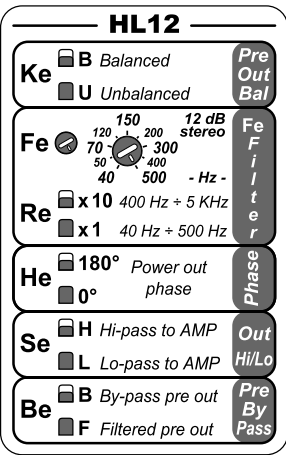
Block diagram



Controls panel



Short guide



Sticker to put onto VRx1 and VRx2 short guide together with Block Diagram one

Controls description

- Ke - BALANCED (B)/UNBALANCED (U) switch for PRE OUT output.
- Fe - 12dB/oct. HI/LO-PASS crossover frequency adjustment.
- Re - Fe x 10 (x10)/x1 (x1) frequency switch.
- He - 0° (0°)/180° (180°) phase shifting switch for amplifier output.
- Se - HI-PASS (H)/LO-PASS (L) switch for PRE OUT output.
- Be - BYPASS (B)/FILTERED (F) switch for PRE OUT output.

Module description

Filter slope: 12dB/oct. Continuous adjustment through 2 steps: 40÷500Hz; 400÷5000Hz. HL12 adds one ABS PRE output to the amplifier it is installed into.

Features

Installed into VRx1 or VRx2, HL12 permits to drive stereo/mono SUB section with 12dB cut. HI-PASS output permits to drive an amplifier without crossover (non independent crossover frequency). The BYPASS output of the first amplifier allows the independent control of HI-PASS frequencies by adding a VRx2 supplied with another HL12. In combination with another VRx2, the use of HI-PASS output also allows the creation of BAND-PASS sections.

Uses

HL12 is a very versatile and polyvalent module. It can be used in the simplest bi-amplified systems, in REAR section or in high performances multi-amplified systems. According to VRx philosophy, it is the "factotum" you have to keep at hand, because it is always possible to filter a system through it. It is the ideal partner for VRx2 and LM24.

Possible configurations

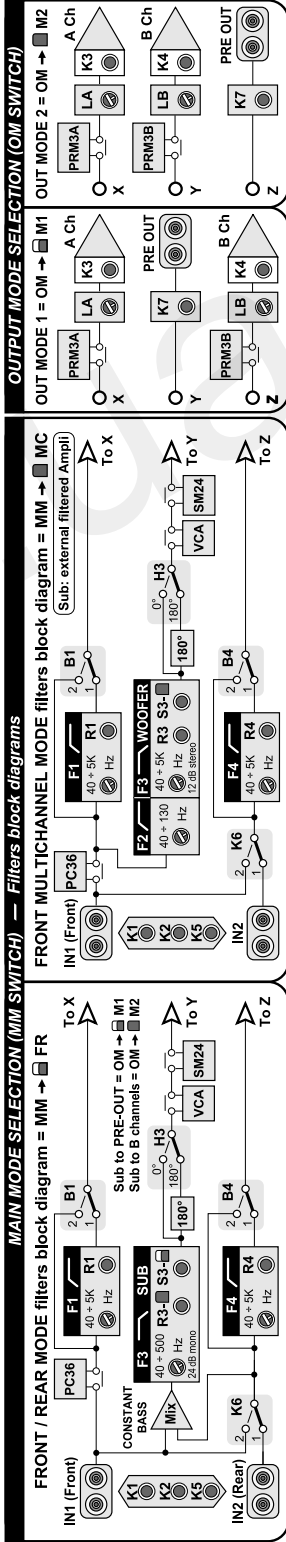
OUT	PRE-OUT	Se HI/LO-PASS	Be BYPASS

VRx4.300

Short guide under wooden strip

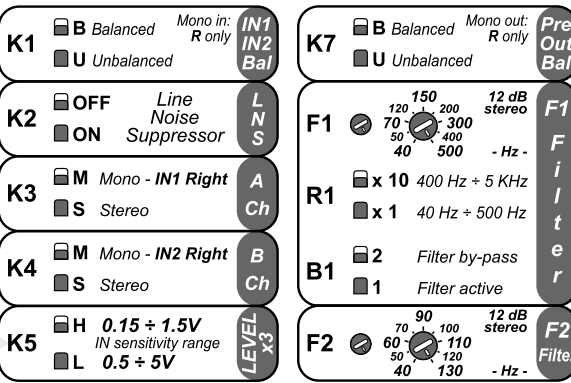
It shows internal crossover, outputs configurations and controls meaning

See owner's manual before any adjustment

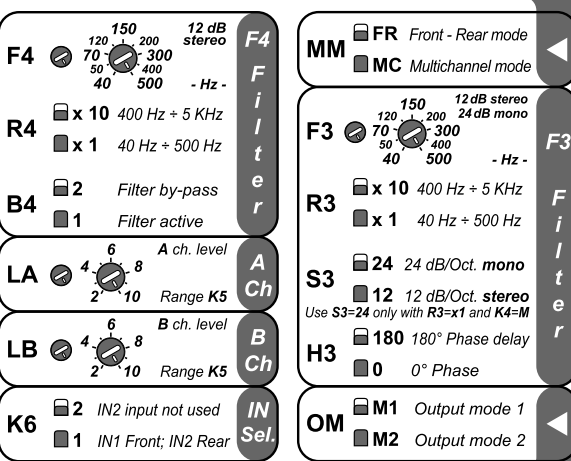


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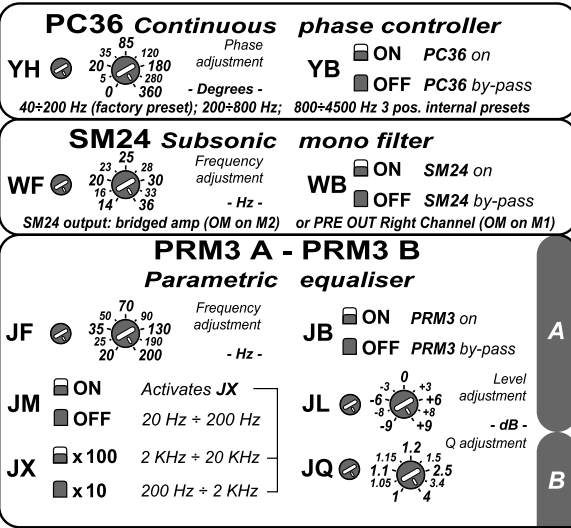
VRx4 controls



Main mode selection - MM



Out mode selection - OM



Controls and functions

Note: In case of installations with more amplifiers connected in cascade, we recommend to put **K2** onto **ON** in the device which receives the signal from the head unit, leaving it onto **OFF** in the others. If disturbance persists, please try to activate **LNS** anti-noise circuit also in the other amplifiers.

☐ on L ☐ ☐ ☐ ☐
☐ safety R ☐ ☐ ☐ ☐
 Peak Channels **A B**

K1	☒ B Balanced ☐ U Unbalanced	Mono In: R only IN1 IN2 Bal
K2	☒ OFF ☐ ON	Line Noise Suppressor L N S
K3	☒ M Mono - IN1 Right ☐ S Stereo	A Ch
K4	☒ M Mono - IN2 Right ☐ S Stereo	B Ch
K5	☒ H ☐ L	0.15 + 1.5V IN sensitivity range 0.5 + 5V LEVEL K3

F4 12 dB stereo
120 150 200
70 50 400
50 300
40 500
Hz -

R4 x 10 400 Hz + 5 KHz
 x 1 40 Hz + 500 Hz

B4 2 Filter by-pass
 1 Filter active

LA 4 6 8 A ch. level
2 10 Range K5

LB 4 6 8 B ch. level
2 10 Range K5

K6 2 IN2 input not used
 1 IN1 Front; IN2 Rear

VR_{x4}

IN Bal

K1

K2

K3

K4

K5

LNS

A/LB X3 A-B Ch. mono

K7

F1

R1

B1

F2

controls

70 30

40 500

60 1

PC36

SM24

PRM3

PRM3

Leds

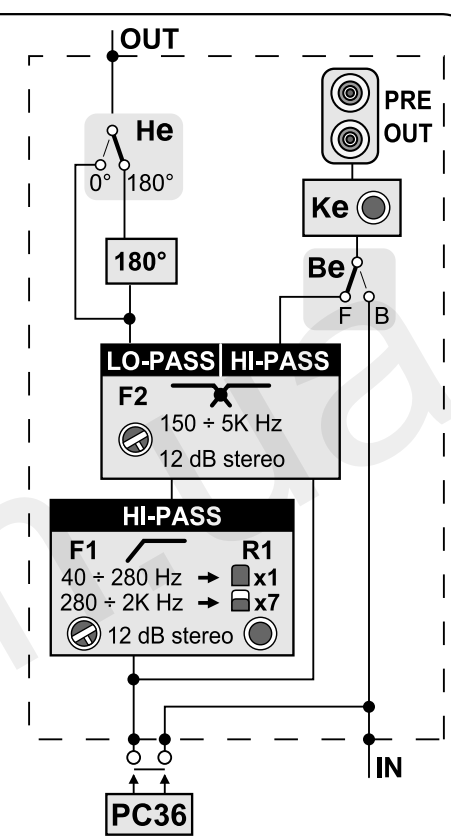
**PEAK LA - LB - RA - RB - Orange
leds**

They are on when one or more VRx amplifiers are about to reach distortion threshold. They are useful to adjust inputs sensitivity.

Crossover module for VRx2 with BAND-PASS filter with independent adjustments and non independent HI-PASS crossover frequency.

F1 frequencies ranges: 40 Hz ÷ 280 Hz; 280 Hz ÷ 2 kHz
F2 frequency range: 150 Hz ÷ 5 kHz

BH12 BAND/HI-PASS 12 dB/Oct.



BH12

Ke

☐ B

Balanced

☐ U

Unbalanced

Pre

Out

Bal

F1

140/1000

80/550

180/1250

55/380

220/1550

45/320

250/1750

40/280

280/2000

12 dB stereo - Hz -

F1

Filter

R1

☐ x7

280 Hz ÷ 2 KHz

☐ x1

40 Hz ÷ 280 Hz

F2

Filter

F2

700

12 dB

500

1000

2000

250

3000

150

5000

stereo

- Hz -

F2

Filter

He

☐ 180°

Power out

☐ 0°

phase

Phase

Be

☐ B

By-pass pre out

☐ F

Filtered pre out

Pre

By

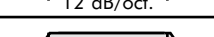
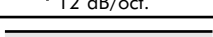
Pass

Ke - BALANCED (**B**)/UNBALANCED (**U**) switch for PRE OUT output.
F1 - 12dB/oct. BAND-PASS lower frequency adjustment.
R1 - F1 x 7 (**x7**)/x1 (**x1**) frequency switch.
F2 - 12dB/oct. BAND-PASS higher frequency and 12dB/oct. HI-PASS lower frequency adjustment.
He - 0° (**0°**)/180° (**180°**) phase shifting switch for amplifier output.
Be - BYPASS (**B**)/HI-PASS (**F**) switch for PRE OUT output.

BAND/LO-PASS (Higher frequency) and HI-PASS section: 12dB/oct. filter slope. Variable frequency between 150 and 5000Hz. Continuous adjustment. BH12 adds one ABS PRE output to the amplifier it is installed into.

It allows the extension to higher frequency ranges in multi-amplified systems. Together with HL12, it permits the frequencies total independent control.

BH12 is especially designed for multi-amplification. Its high internal complexity makes its use simple and evident. It is VRx2 partner and it is ideal for HL12 and LM24.

	OUT	PRE OUT	Be BYPASS
			
e s			

Possible configurations

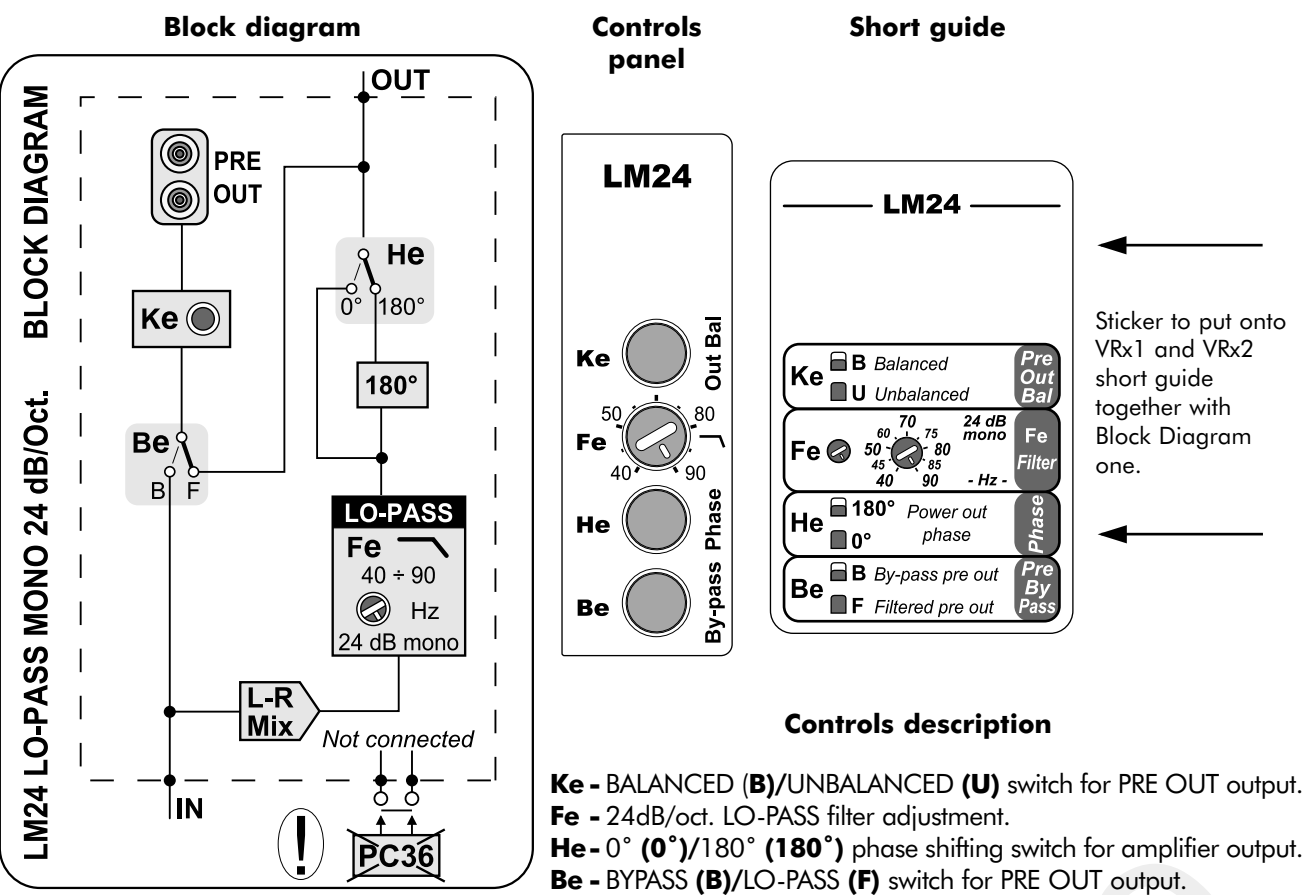
VRx1 - VRx2 Multichannel Extensions

LM24

Crossover

24dB/oct. mono LO-PASS
Frequency range: 40 Hz ÷ 90 Hz

Crossover module for VRx1 and VRx2
with LO-PASS MONO cut and L/R
channels mixing.



Module description

24dB/oct. filter slope. Variable frequency between 40Hz and 90Hz. Continuous adjustment. LM24 adds one ABS PRE output to the amplifier it is installed into.

Features

Installed onto VRx1 or VRx2, it permits to drive SUB section in MONO with cut at 24dB. BYPASS output allows the addition of another VRx2 filtered with HL12 or BH12 in order to have independent HI-PASS control. LO-PASS output permits to add another amplifier to boost SUB section; naturally, in this case, a full range signal coming from a VRx2 with HL12 must be sent to the input of the amplifier where LM24 is installed, and VRx2 and HL12 will handle HI-PASS section.

Note: LM24 includes only a LO-PASS section and, thus, it does not permit to use PC36 since the latter must be employed together with a HI-PASS section in order to function in the right way (see part B, p. 5).

Uses

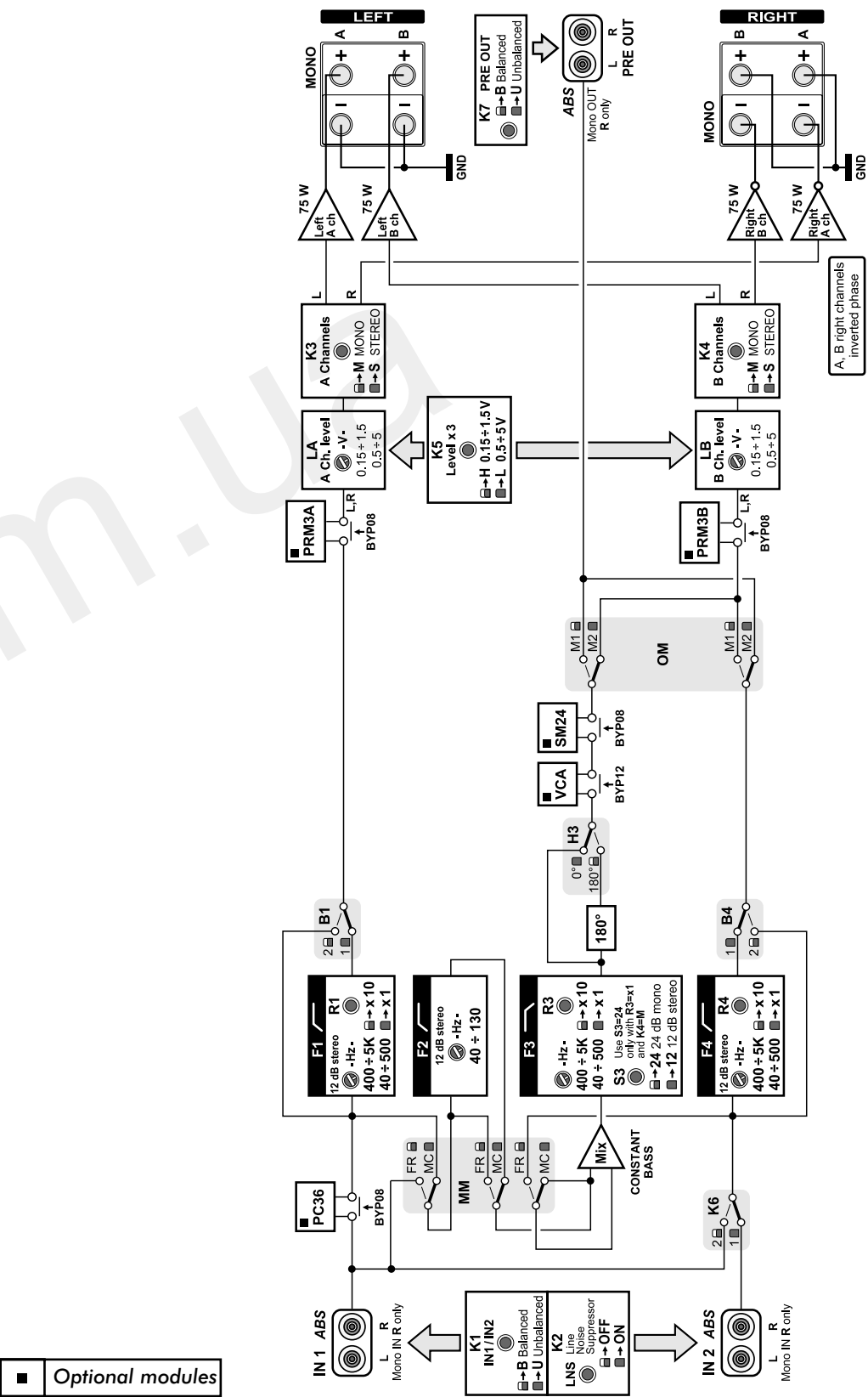
LM24 is especially designed for SUB section and has the advantages of cut at 24dB. It is indispensable both in bi-amplified systems and multi-amplified ones. It is the ideal partner of VRx1 and HL12.

Possible configurations

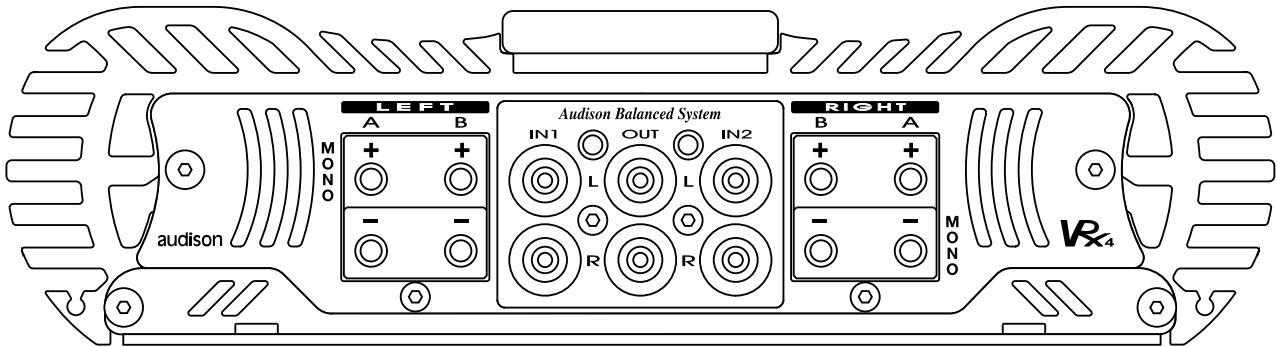
OUT	PRE OUT	Be BYPASS

VRx4.300

Block diagram



VRx4.300



Technical features

POWER SUPPLY	11 ÷ 15 VDC
IDLING CURRENT	2.2 A
IDLING CURRENT WHEN OFF	< 0.04 mA
CONTINUOUS NOMINAL POWER Tol.: (+10%/-5%); 0.3% THD; 12 VDC	
4 ch on 4 Ohms	75 W x 4 (RMS)
CONTINUOUS POWER Tol.: (+10%/-5%); 1% THD; 12.6 VDC	
4 ch on 4 Ohms	110 W x 4 (RMS)
CONTINUOUS POWER Tol.: (+10%/-5%); 1% THD; 13.8 VDC	
4 ch on 4 Ohms	110 W x 4 (RMS)
4 ch on 2 Ohms	175 W x 4 (RMS)
4 ch on 1 Ohm	220 W x 4 (RMS)
2 ch bridged on 4 Ohms + 2 ch bridged on 4 Ohms	350 W + 350 W (RMS)
2 ch bridged on 2 Ohms + 2 ch bridged on 2 Ohms	440 W + 440 W (RMS)
2 ch on 4 Ohms + 2 ch bridged on 4 Ohms	102 W x 2 + 380 W (RMS)
2 ch on 4 Ohms + 2 ch bridged on 2 Ohms	90 W x 2 + 530 W (RMS)
THD DISTORTION (1 kHz; 90% Nominal Power)	0.02 %
IMD DISTORTION (90% Nominal Power)	0.04 %
BANDWIDTH (-3dB; Nominal Power)	2 Hz ÷ 70 kHz
S/N RATIO (A weighed - 1 VRMS input)	100 dBA
REMOTE IN	7 - 15 VDC
REMOTE OUT	12 VDC ÷ 150 mA
INPUT SENSITIVITY (high)	0.15 ÷ 1.5 VRMS
INPUT SENSITIVITY (low)	0.50 ÷ 5.0 VRMS
INPUT IMPEDANCE	15 kOhms
LOAD IMPEDANCE (stereo)	8 - 4 - 2 - 1 Ohm
LOAD IMPEDANCE (bridged)	8 - 4 - 2 Ohms
SIZE (W x H x D) mm	240 x 64 x 499
SIZE (W x H x D) inches	9.4 x 2.5 x 19.6
INTERNAL FUSE	70A

ABSORBED CURRENT AT MAXIMUM MUSICAL POWER - EXTERNAL FUSE CHOICE

13.8V - 4 ch. x 4 Ohms or 2 bridged ch. x 8 Ohms + 2 bridged ch.x 8 Ohms	27 A
13.8V - 4 ch. x 2 Ohms or 2 bridged ch. x 4 Ohms + 2 bridged ch. x 4 Ohms	47 A
13.8V - 4 ch. x 1 Ohm or 2 bridged ch.x 2 Ohms + 2 bridged ch. x 2 Ohms	70 A
13.8V - 2 ch. x 4 Ohms + 2 bridged ch. x 4 Ohms	38 A
13.8V - 2 ch. x 4 Ohms + 2 bridged ch. x 2 Ohms	52 A

Measures were realised through a test-set consisting of Rohde & Schwarz UPD audio analyser, HP 6453A power supply (200A continuous) and 14F capacitive booster made with audison cable Superfarad capacitors.

Please always choose a fuse of equal or slightly higher value (max 10%) than indicated.

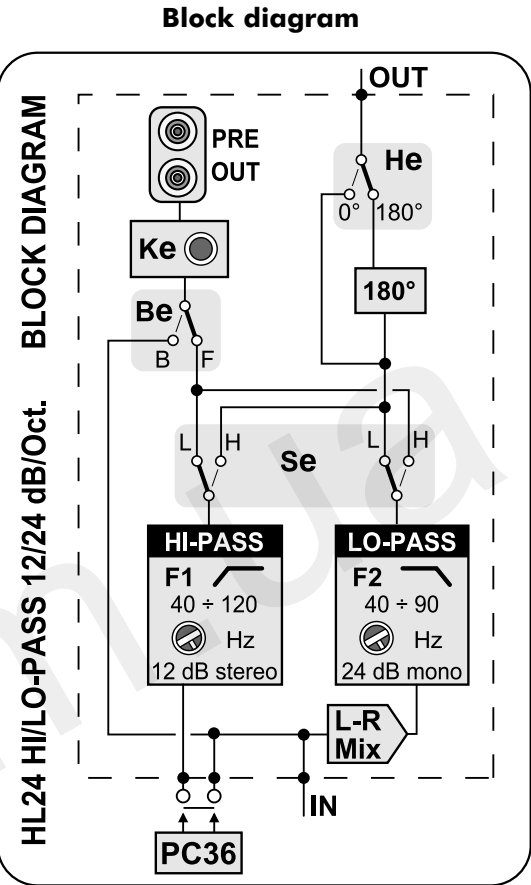
Note: The use of MAC2 cooling system is strongly recommended when the amplifier is employed at full power with 1 Ohm stereo or 2 Ohm bridged loads.

VRx1 - VRx2 Multichannel Extensions HL24

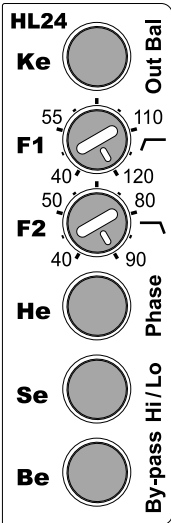
Crossover module for VRx1 and VRx2 with independent HI/LO-PASS crossover frequency.

Crossover

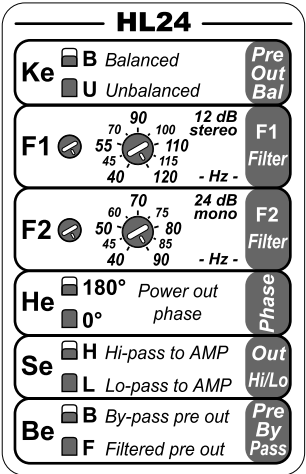
12dB/oct. HI-PASS - 24dB/oct. LO-PASS
F1 frequency range: 40 Hz ÷ 120 Hz
F2 frequency range : 40 Hz ÷ 90 Hz



Controls panel



Short guide



Controls description

Ke - BALANCED (B)/UNBALANCED (U) switch for PRE OUT output.
F1 - 12dB/oct. HI-PASS filter adjustment.
F2 - 24dB/oct. LO-PASS filter adjustment.
He - 0° (0°)/180° (180°) phase shifting switch for amplifier output.
Se - HI-PASS (H)/LO-PASS (L) switch for PRE OUT output.
Be - BYPASS (B)/FILTERED (F) switch for PRE OUT output.

Module description

LO-PASS section is MONO and mixes R and L channels. HI-PASS section is Stereo. HL24 adds an ABS PRE output to the amplifier it is installed into.

Features

It permits to drive SUB section in MONO with cut at 24dB. Its preamplified HI-PASS output can be sent to another amplifier without crossover or to a VRx2 with HL12 module in order to realise a BAND-PASS section. Module outputs can be exchanged one with the other; in this way, the amplifier where the module is installed can be used for front system; the PRE output can be employed to drive an external amplifier dedicated to SUB.

Uses

HL24 is especially designed for bi-amplified systems since it handles SUB crossover point. It is, however, a very flexible device which allows its use also when other functions are needed. It is the ideal partner for VRx1 and VRx2.

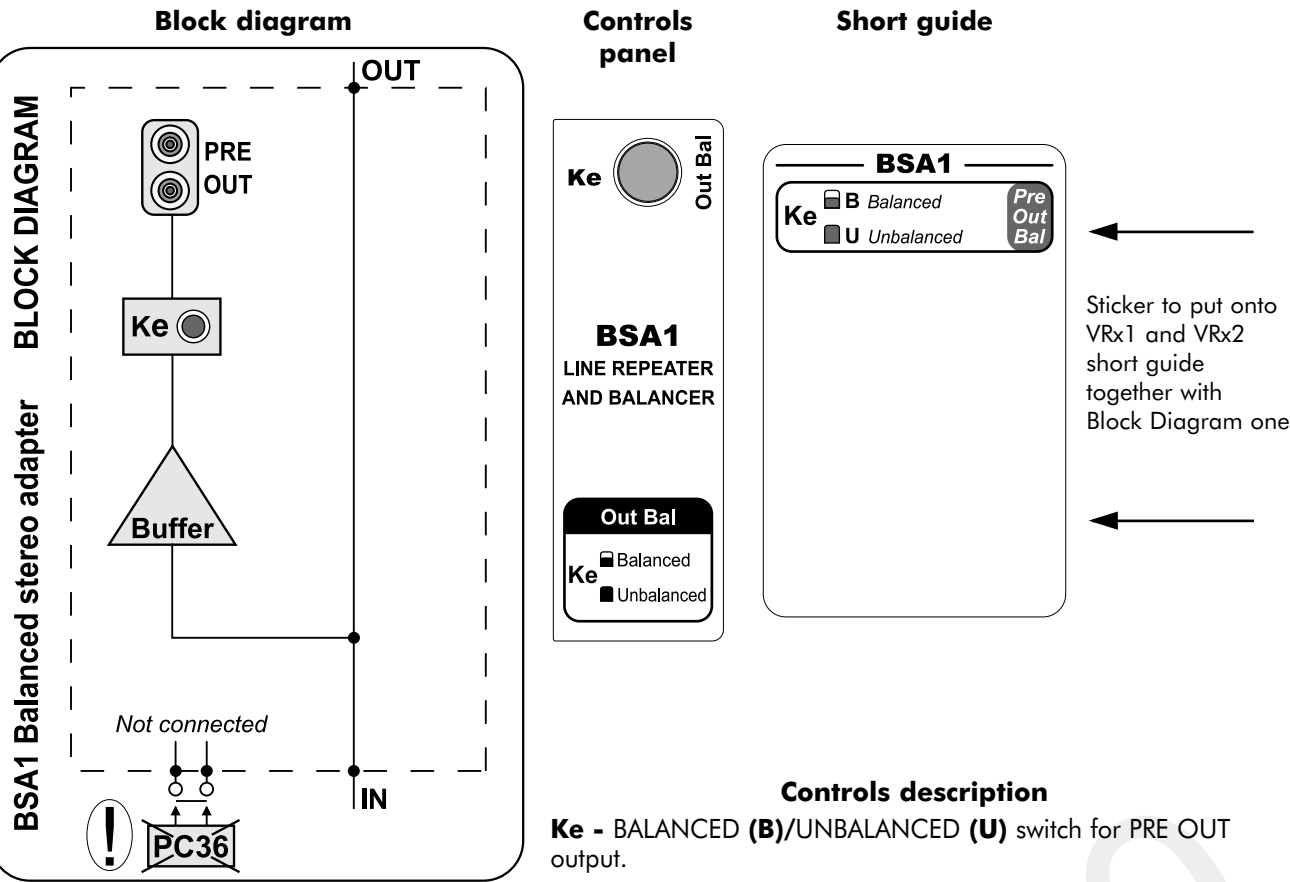
Possible configurations

OUT	PRE OUT	Se HI/LO-PASS	Be BYPASS
		☐	☐
		☐	☐
		☐	☐
		☐	☐

VRx1 - VRx2 Multichannel Extensions BSA1

Pre input repeater stereo module (BYPASS) for VRx1 and VRx2.

Stereo balanced line repeater



Module description

BSA1 adds an ABS PRE output to the amplifier it is installed into. It permits to amplify and repeat the same frequencies range as VRx amplifier it is installed into.

Note: BSA1 does not have crossover sections; it is therefore not possible to use it with PC36 since the latter must be employed together with a HI-PASS section in order to function in the right way (see part B, p. 5).

Uses

It is especially recommended for VRx1 and VRx2, dedicated to SUB through an external filtered source, when you like to increase the system power. You can add as many amplifiers as you like, connected in cascade.

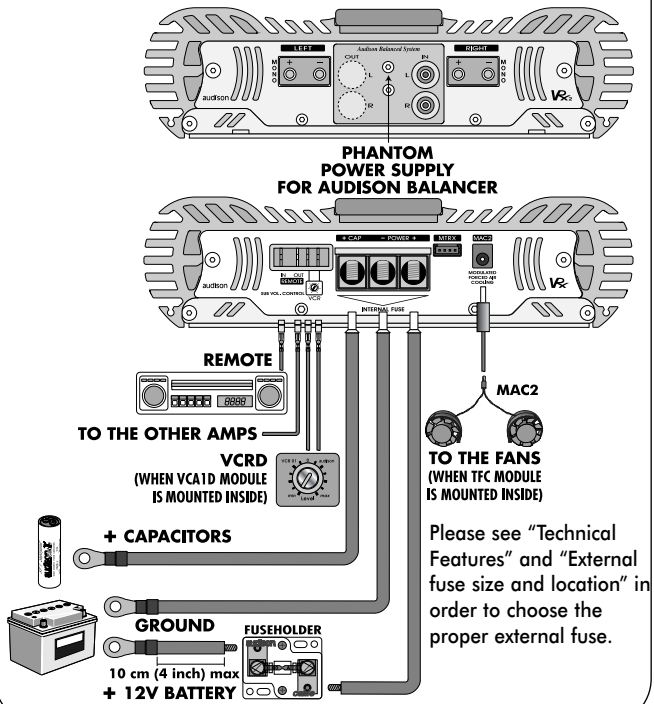
VRx
audison

2000 EDITION VRx4.300

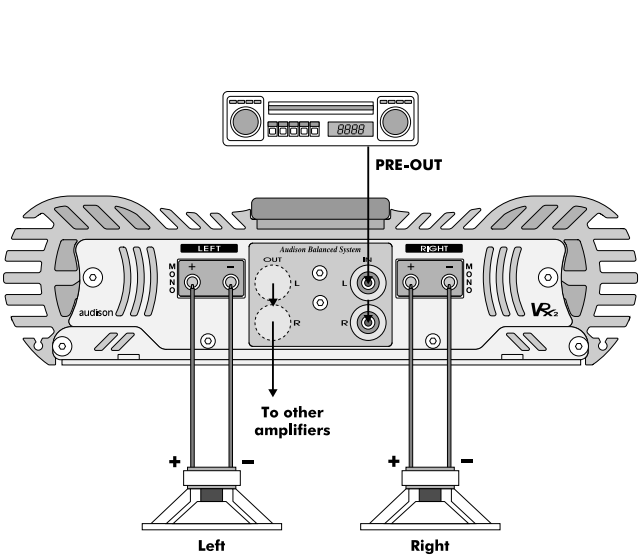


VRx 2.150 - VRx2.250 - VRx2.400 connections

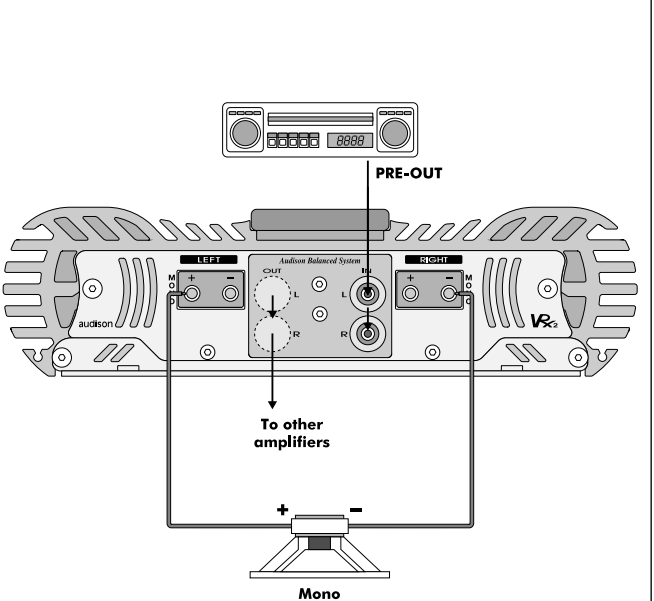
Power supply, remote and accessories



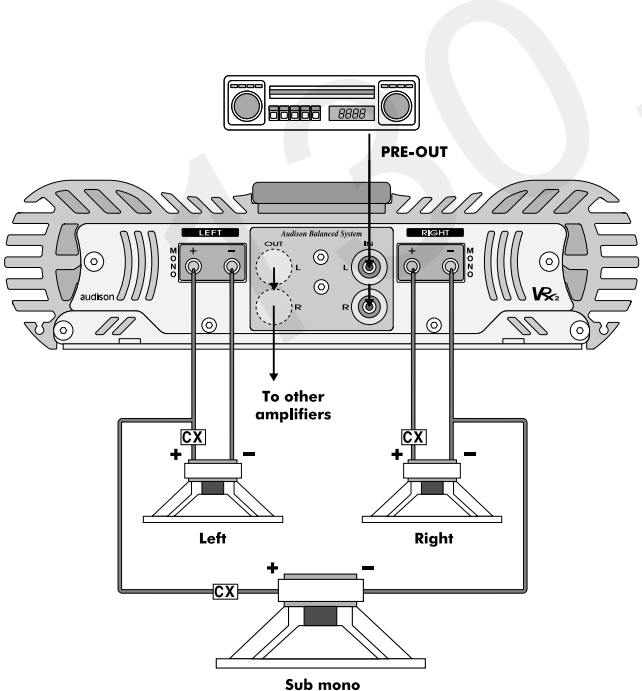
Inputs and outputs: stereo connection



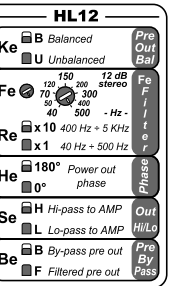
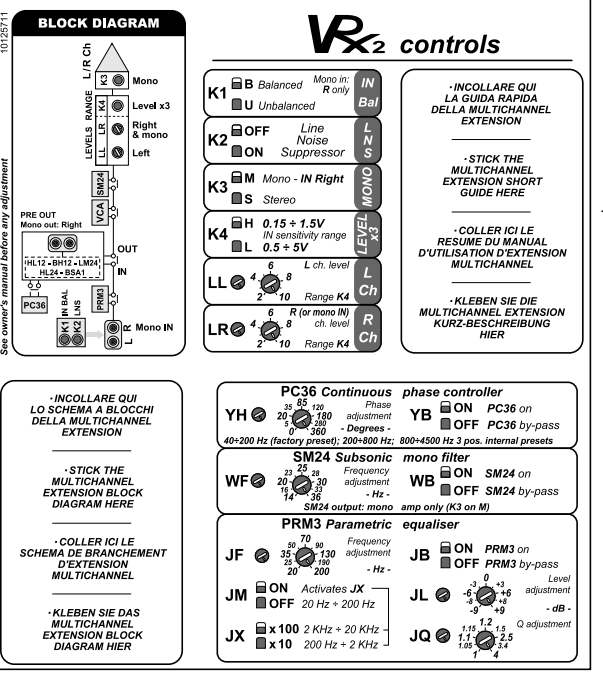
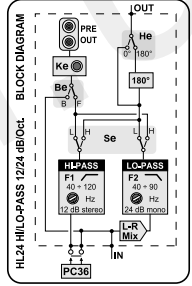
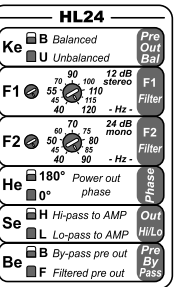
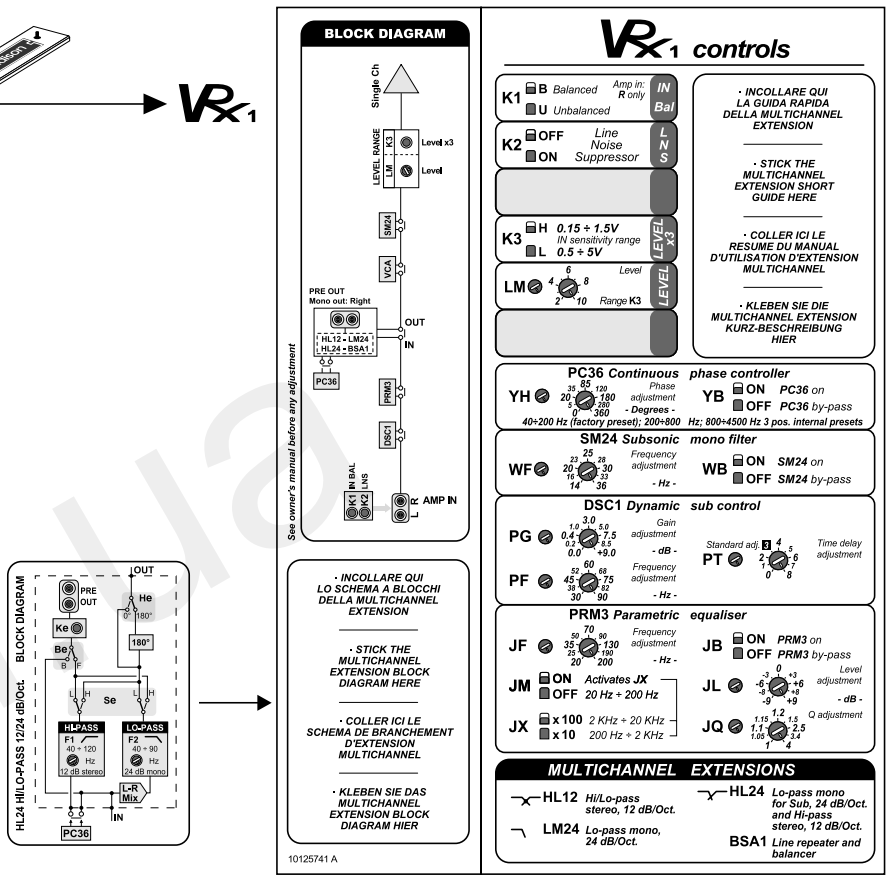
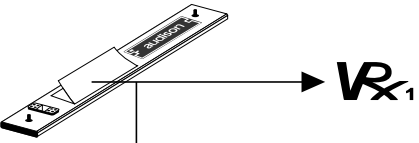
Inputs and outputs: bridge connection



Inputs and outputs: Tri-mode connection

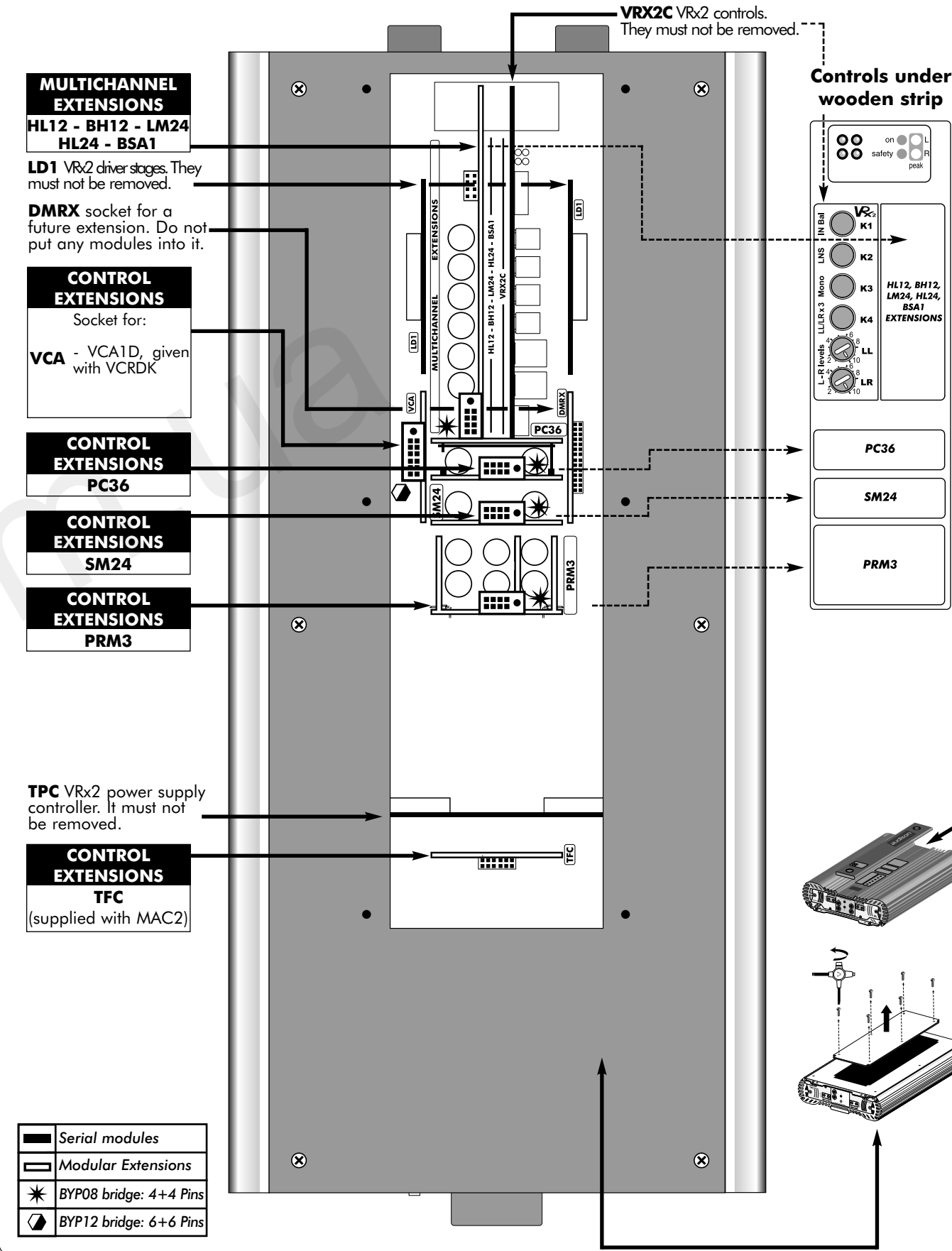


Updating of short guide under wooden strip



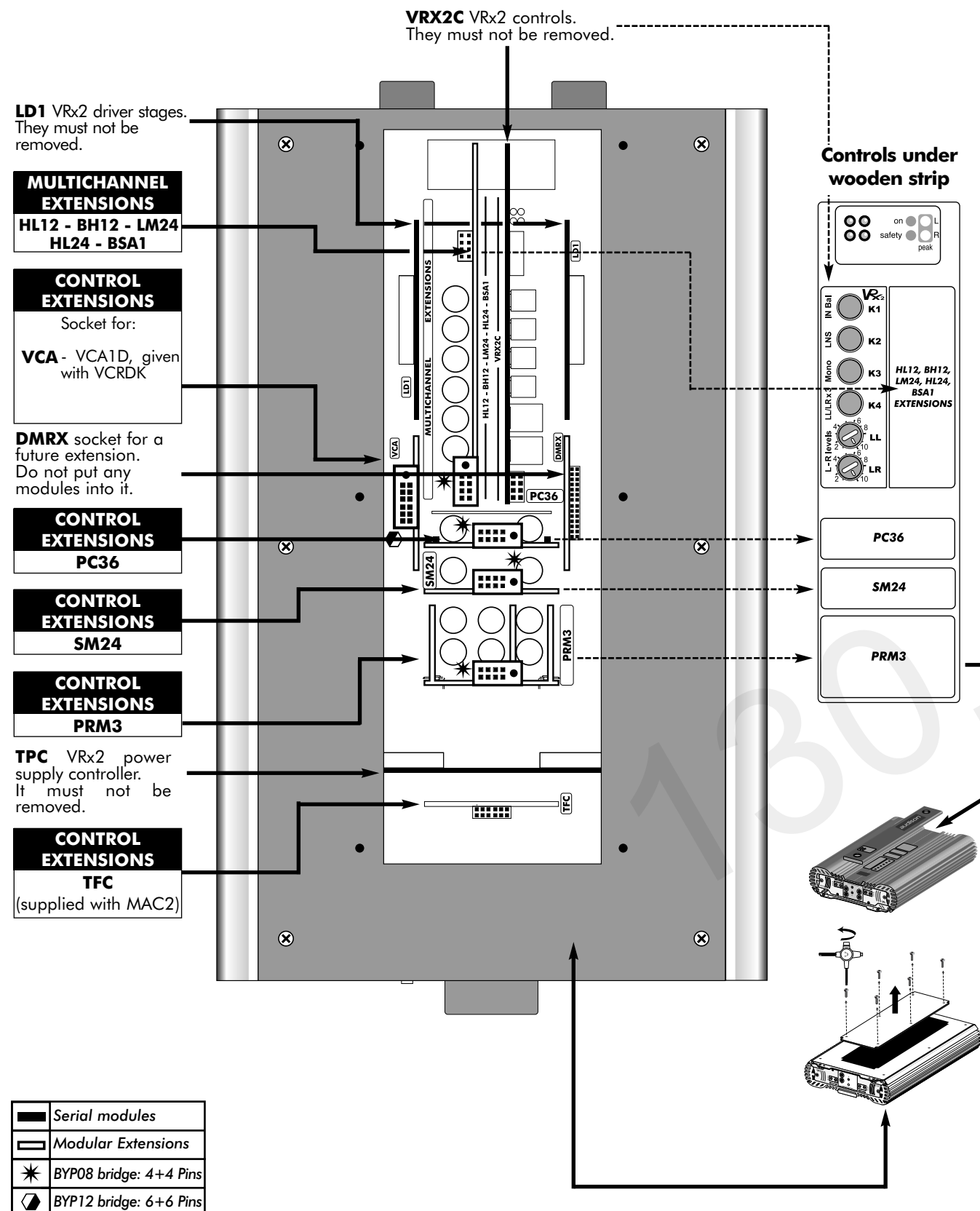
WHERE TO PUT MODULAR EXTENSIONS

VRx2.400



WHERE TO PUT MODULAR EXTENSIONS

VRx2.150 - VRx2.250



VRx audison

2000 EDITION

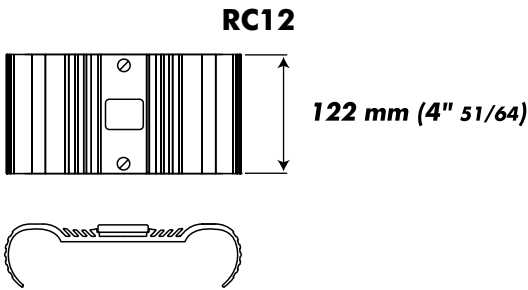
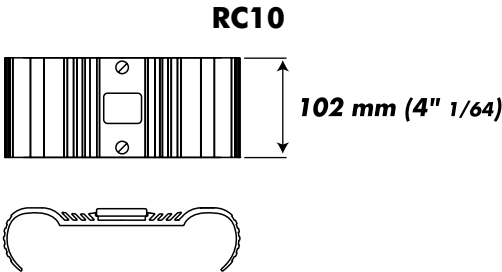
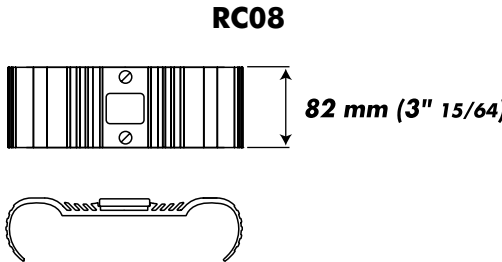
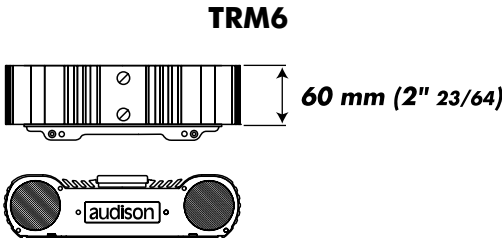
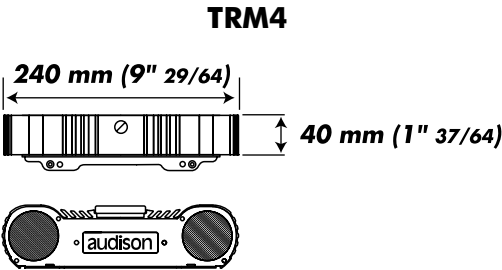
MODULAR EXTENSIONS: COOLING DUCT EXTENSIONS

- Raccords: RC08 - RC10 - RC12
- Terminals: TRM4 - TRM6

WARNING!

Apply to Audison's specialised installation centres for the installation and configuration of modular extensions described in this section

Terminals and Raccords



Cooling Duct Extensions are terminals and raccords which have two functions:
- Esthetical
- Technical

Esthetical function: they cover connections and make installation more elegant.

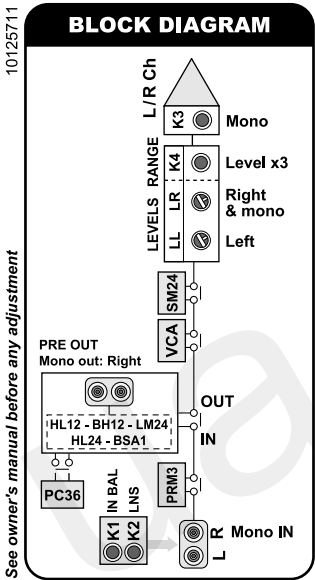
Technical function: they contain MAC2 kit fans and drive air into the heat sink hollows.

Terminals and Raccords are available in different lengths, in order to be able to realise a system which privileges space for connections or compactness.

VRx2.150 - VRx2.250 - VRx2.400

Short guide under wooden strip

It shows output configurations and meaning controls



VR₂ controls

K1 ☐ B Balanced Mono in: R only ☐ U Unbalanced ☐ Bal

K2 ☐ OFF Line Noise ☐ ON Suppressor ☐ LNS

K3 ☐ M Mono - IN Right ☐ S Stereo ☐ MONO

K4 ☐ H 0.15 ÷ 1.5V IN sensitivity range ☐ L 0.5 ÷ 5V ☐ LEVEL x3

LL 4 6 8 10 L ch. level ☐ L Ch

LR 4 6 8 10 R (or mono IN) ch. level ☐ R Ch

• INCOLLARE QUI LA GUIDA RAPIDA DELLA MULTICHANNEL EXTENSION

• STICK THE MULTICHANNEL EXTENSION SHORT GUIDE HERE

• COLLER ICI LE RESUME DU MANUAL D'UTILISATION D'EXTENSION MULTICHANNEL

• KLEBEN SIE DIE MULTICHANNEL EXTENSION KURZ-BESCHREIBUNG HIER

• INCOLLARE QUI LO SCHEMA A BLOCCHI DELLA MULTICHANNEL EXTENSION

• STICK THE MULTICHANNEL EXTENSION BLOCK DIAGRAM HERE

• COLLER ICI LE SCHEMA DE BRANCHEMENT D'EXTENSION MULTICHANNEL

• KLEBEN SIE DAS MULTICHANNEL EXTENSION BLOCK DIAGRAM HIER

PC36 Continuous phase controller
YH ☐ ON PC36 on ☐ OFF PC36 by-pass
40÷200 Hz (factory preset); 200÷800 Hz; 800÷4500 Hz 3 pos. internal presets

SM24 Subsonic mono filter
WF ☐ ON SM24 on ☐ OFF SM24 by-pass
SM24 output: mono amp only (K3 on M)

PRM3 Parametric equaliser
JF ☐ ON PRM3 on ☐ OFF PRM3 by-pass
JB ☐ ON PRM3 on ☐ OFF PRM3 by-pass
JM ☐ ON Activates JX ☐ OFF 20 Hz ÷ 200 Hz
JL ☐ ON Level adjustment ☐ OFF - dB -
JX ☐ x100 2 KHz ÷ 20 KHz ☐ x10 200 Hz ÷ 2 KHz
JQ ☐ ON Q adjustment ☐ OFF 1.05 1.1 1.15 1.2 1.5 2.5 3.4 4

MULTICHANNEL EXTENSIONS

HL12 Hi/Lo-pass stereo, 12 dB/Oct.

BH12 Band/Hi-pass stereo, 12 dB/Oct.

LM24 Lo-pass mono, 24 dB/Oct.

HL24 Lo-pass mono for Sub, 24 dB/Oct. and Hi-pass stereo, 12 dB/Oct.

BSA1 Line repeater and balancer

VRx2.150 - VRx2.250 - VRx2.400

Controls and functions

Leds

ON - Green led
It indicates the amplifier is on.

SAFETY - Red led
It indicates protection intervention: excessively high temperature or output anomalies (direct current, short circuit or dangerously low load impedance). Protection intervention stops the amplifier functioning. Switch the amplifier off; when anomaly is eliminated, switch the amplifier on again.

PEAK L - R - Orange leds
They are on when one or more VRx amplifiers are about to reach distortion threshold. They are useful to adjust inputs sensitivity.

Controls description

- K1 - Bal/Unbal** inputs switch.
- K2 - LNS** circuit **ON/OFF** switch for line noise suppression.
- K3 - Mono/Stereo** switch. In mono, the amplifier input is the one which is commonly used for right channel (**R**).
- K4 -** It selects **sensitivity range**.
- LR, LL -** Input **sensitivities adjustment** of right and left channel respectively. When the amplifier is in mono, adjustment is made through **LR**.

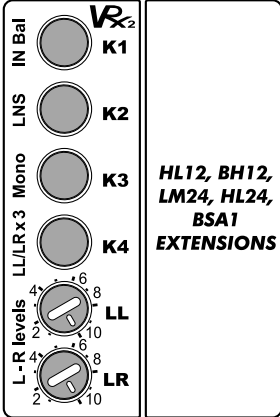
Warning - When SM24, mono subsonic filter for SUB, is employed, the amplifier cannot be used in stereo. **K3** has to be set on **Mono**.

Note: In case of installations with more amplifiers connected in cascade, we recommend to put **K2** onto **ON** in the first device (i.e. the one which receives the signal from the head unit), leaving it onto **OFF** in the others.
If disturbance persists, you can activate **LNS** anti-noise circuit also in the other amplifiers.

Short guide

K1	B	Balanced	Mono in: R only	IN
	U	Unbalanced		Bal
K2	OFF	Line Noise Suppressor	LNS	
	ON			
K3	M	Mono - IN Right	MONO	
	S	Stereo		
K4	H	0.15 ÷ 1.5V IN sensitivity range	LEVEL x3	
	L	0.5 ÷ 5V		
LL	4	6	L ch. level	L
	2	10	Range K4	Ch
LR	4	6	R (or mono IN) ch. level	R
	2	10	Range K4	Ch

Controls under wooden strip



PC36

SM24

PRM3

Terminals: installation of TRM4 and TRM6

Note: Please use the special multispanner supplied with the devices in order to carry out these operations.

How to put logo in the right way in case the amplifier is mounted upside down

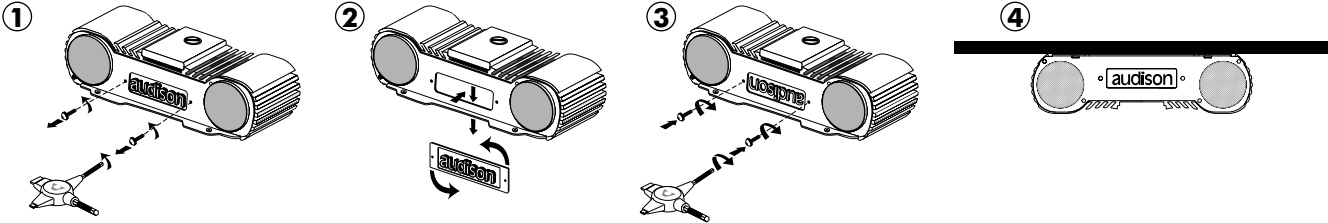
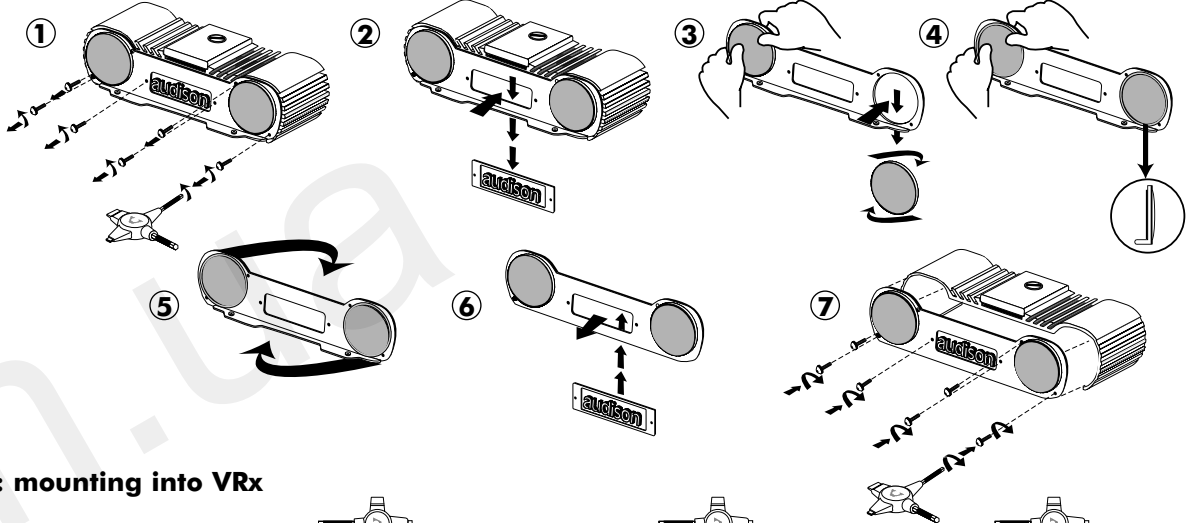
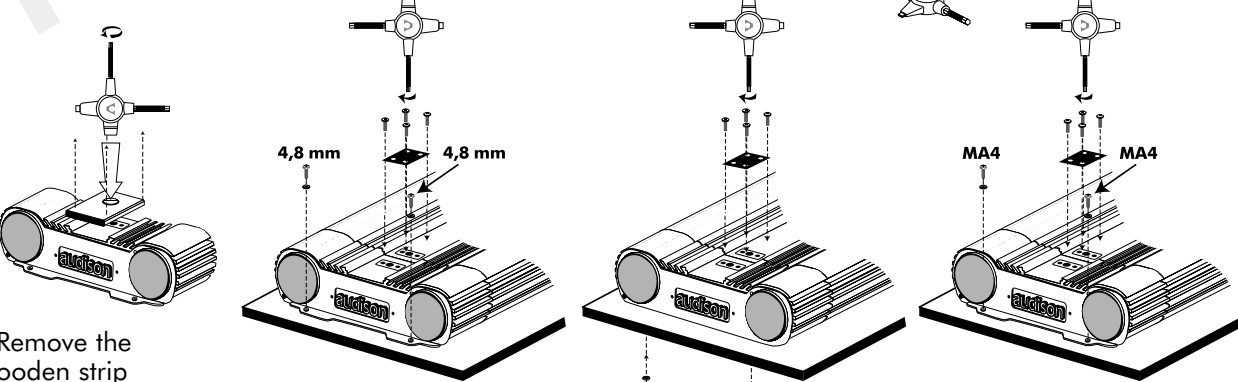


Plate mounting with hidden fixing screws

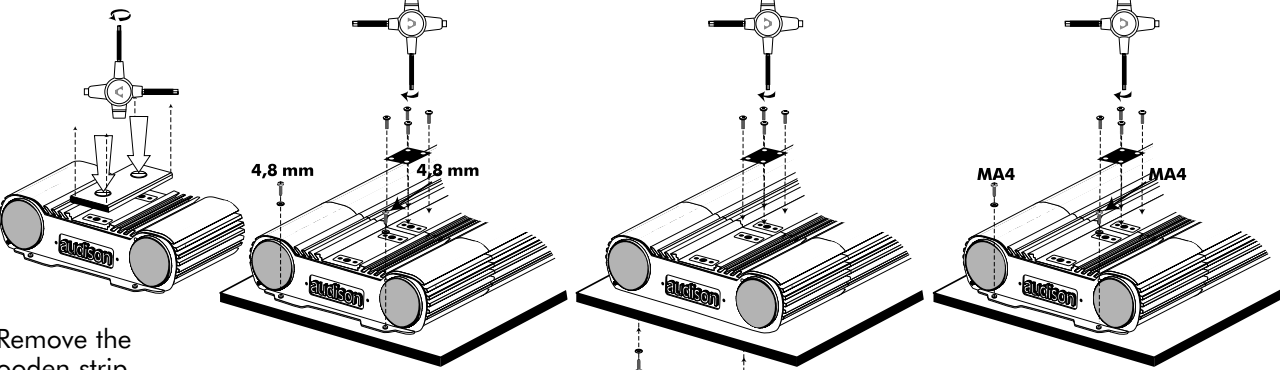


TRM4: mounting into VRx



- ① - Remove the wooden strip
- ② **A** - Self-tapping screws (Ø 4.8 mm) at sight.
- ② **B** - Hidden MA4 screws.
- ② **C** - MA4 screws at sight.

TRM6: mounting into VRx

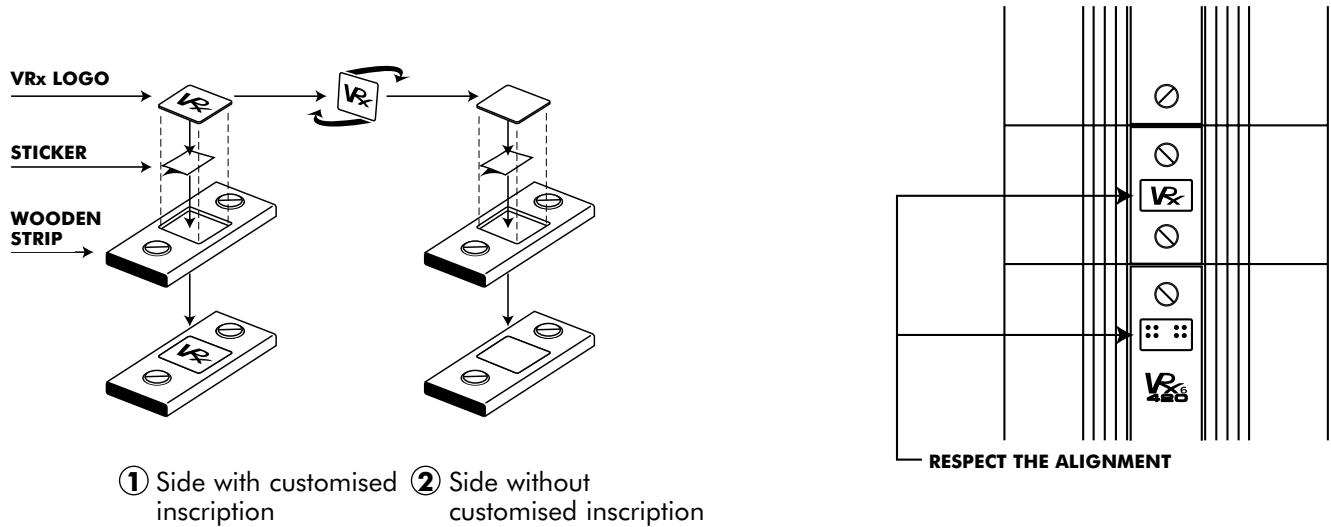


- ① - Remove the wooden strip
- ② **A** - Self-tapping screws (Ø 4.8 mm) at sight.
- ② **B** - Hidden MA4 screws.
- ② **C** - MA4 screws at sight.

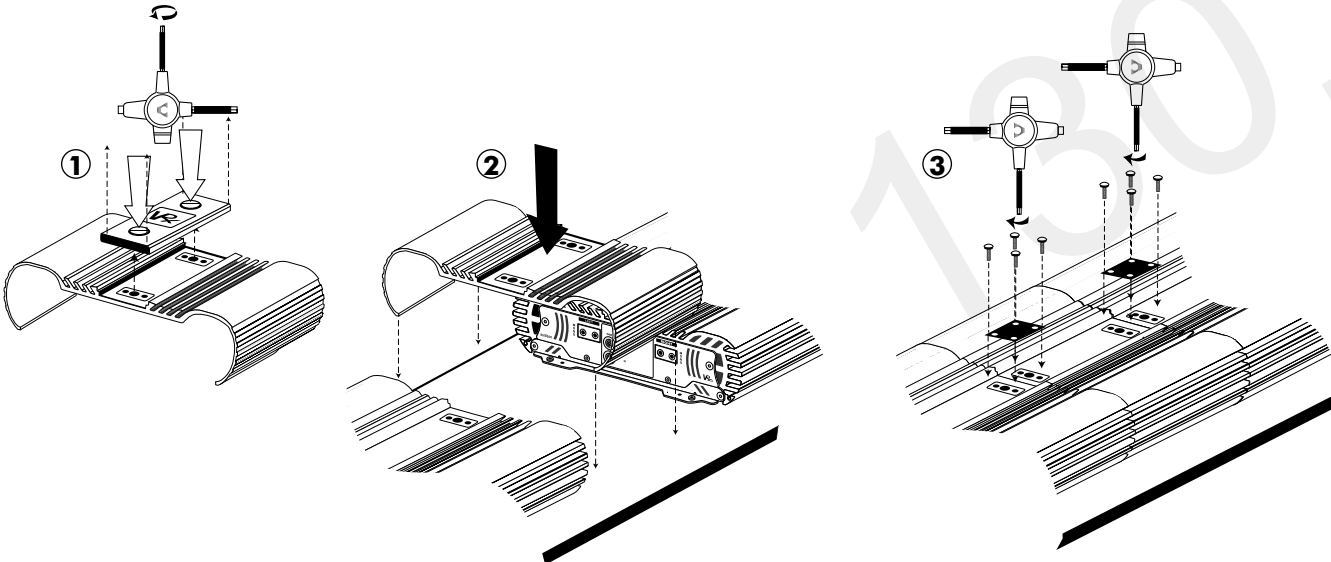
Raccords: installation of RC08, RC10 and RC12

Note: Please use the special multispanner supplied with the devices in order to carry out these operations.

VRx logo fixing into wooden strip

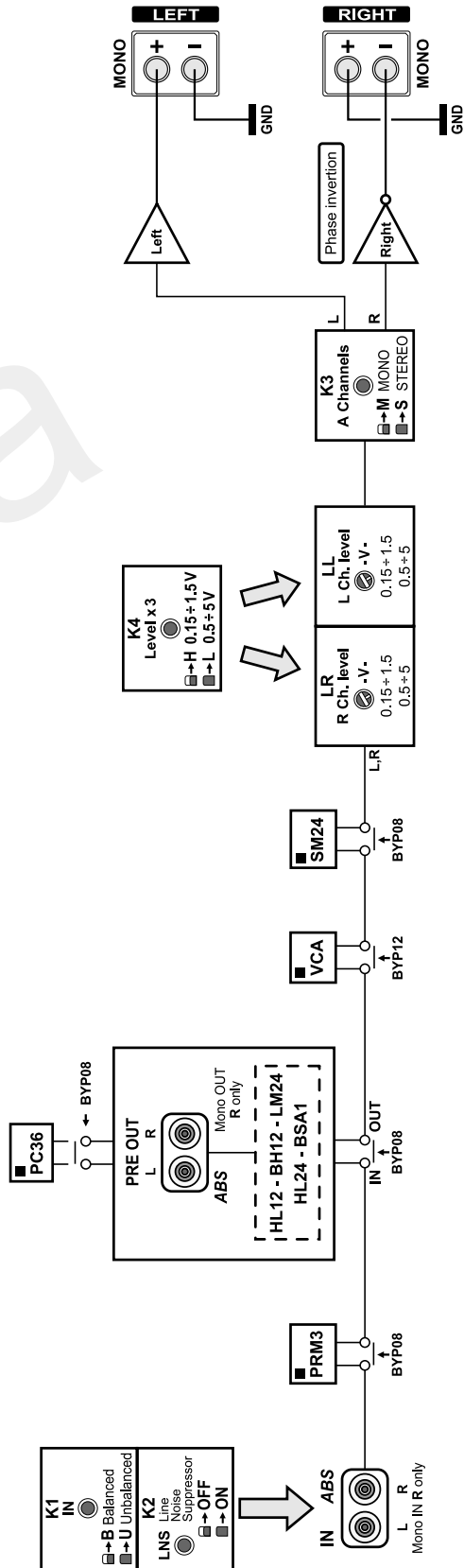


RC08 – RC10 – RC12: fixing onto VRx



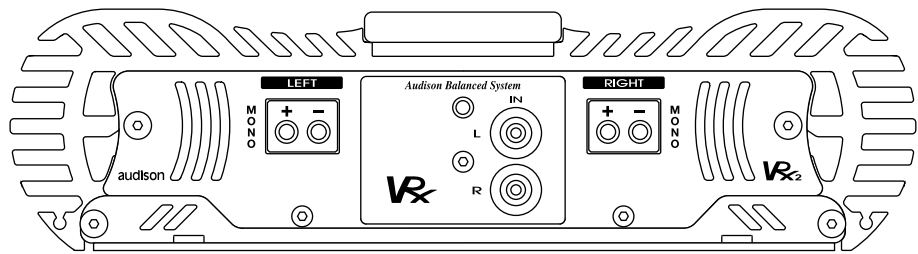
VRx2.150 - VRx2.250 - VRx2.400

Block diagram

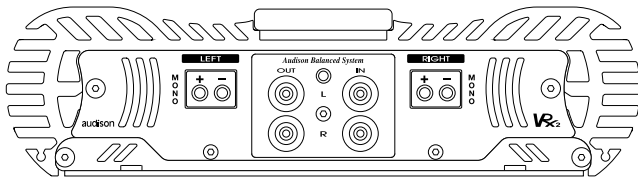


■	<i>Optional modules</i>
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VRx2.400



Inputs panel with
multichannel
extensions:
HL12 - BH12 - LM24
HL24 - BSA1



Technical features

POWER SUPPLY	11 ÷ 15 VDC
IDLING CURRENT	2.1 A
IDLING CURRENT WHEN OFF	< 0.04 mA
CONTINUOUS NOMINAL POWER Tol.: (+10%/-5%); 0.3% THD; 12 VDC	
2 ch on 4 Ohms	200 W + 200 W (RMS)
CONTINUOUS POWER Tol.: (+10%/-5%); 1% THD; 12.6 VDC	
2 ch on 4 Ohms	250 W + 250 W (RMS)
CONTINUOUS POWER Tol.: (+10%/-5%); 1% THD; 13.8 VDC	
2 ch on 4 Ohms	250 W + 250 W (RMS)
2 ch on 2 Ohms	450 W + 450 W (RMS)
2 ch on 1 Ohm	580 W + 580 W (RMS)
1 ch bridged on 4 Ohms	900 W (RMS)
1 ch bridged on 2 Ohms	1160 W (RMS)
THD DISTORTION (1 kHz; 90% Nominal Power)	0.02 %
IMD DISTORTION (90% Nominal Power)	0.06 %
BANDWIDTH (-3dB; Nominal Power)	2 Hz ÷ 70 kHz
S/N RATIO (A weighed - 1 VRMS input)	100 dBA
REMOTE IN	7 ÷ 15 VDC
REMOTE OUT	12 VDC - 150 mA
INPUT SENSITIVITY (high)	0.15 ÷ 1.5 VRMS
INPUT SENSITIVITY (low)	0.50 ÷ 5.0 VRMS
INPUT IMPEDANCE	15 kOhms
LOAD IMPEDANCE (stereo)	8 - 4 - 2 - 1 Ohm
LOAD IMPEDANCE (bridged)	8 - 4 - 2 Ohms
SIZE (W x H x D) inches	240 x 64 x 432
SIZE (W x H x D) inches	9.4 x 2.5 x 17
INTERNAL FUSE	100A

ABSORBED CURRENT AT MAXIMUM MUSICAL POWER - EXTERNAL FUSE CHOICE

13.8V - 4 Ohms stereo or 8 Ohms bridged	.35 A
13.8V - 2 Ohms stereo or 4 Ohms bridged	.65 A
13.8V - 1 Ohm or 2 Ohms bridged	.97 A

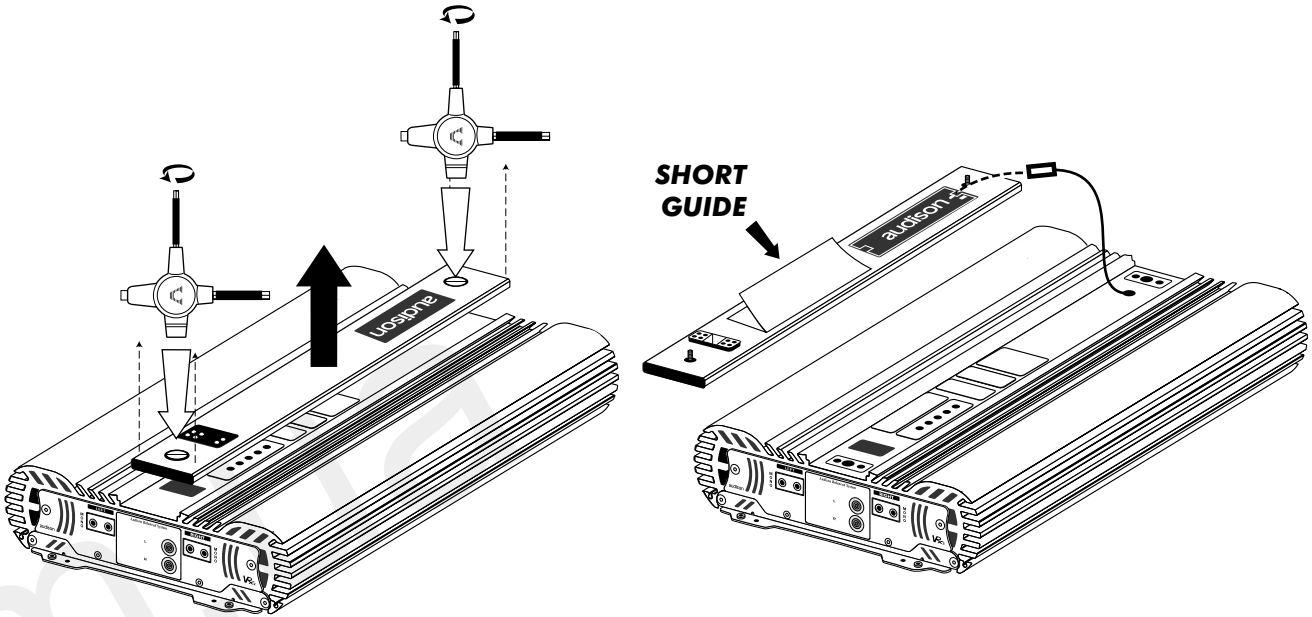
Measures were realised through a test-set consisting of Rohde & Schwarz UPD audio analyser, HP 6453A power supply (200A continuous) and 14F capacitive booster made with **audison cable Supertarad** capacitors.

Please always choose a fuse of equal or slightly higher value (max 10%) than indicated.

Note: The use of MAC2 cooling system is strongly recommended when the amplifier is employed at full power with 1 Ohm stereo or 2 Ohm bridged loads.

Wooden strip removal

You need to remove the wooden strip which protects calibration and configuration controls in order to act onto them. The wooden strip removal is also necessary to install modular extensions which require the plate replacement: PRM3, SM24, PC36, DSC1, HL12, BH12, HL24, LM24, BSA1.



Unscrew the two fixing screws.

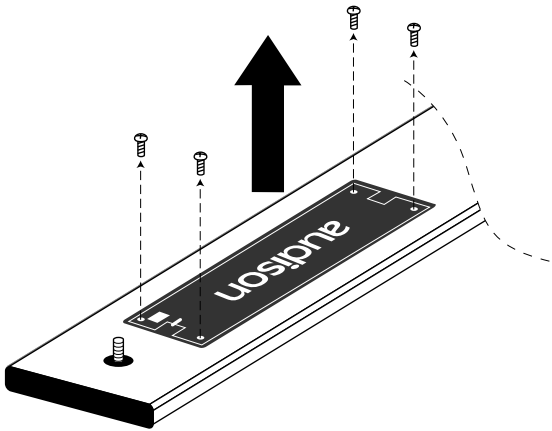
Disconnect the wire for logo illumination.

Illuminated logo rotation

It is sometimes necessary to install VRx so that its **audison** logo is upside down. Rotate it of 180° according to the instructions written below in order to have it in the right position again.

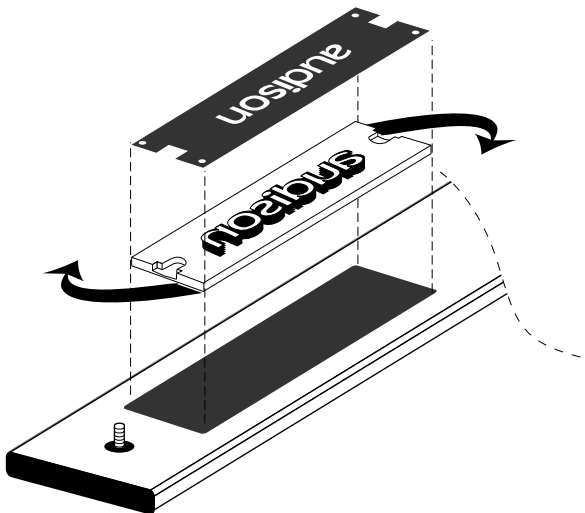
①

Remove the wooden strip.



②

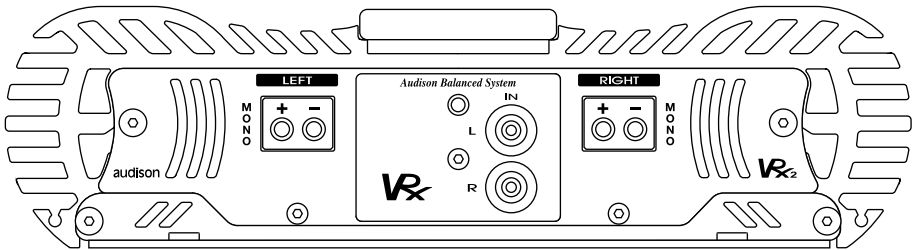
Turn the wooden strip upside down and unscrew the four screws.



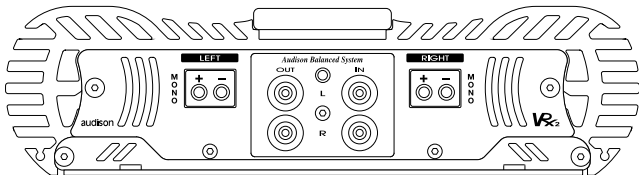
③

Lift the printed circuit and rotate the transparent inscription of 180° (as from drawing). Mount everything back again.

VRx2.250



Inputs panel with
multichannel
extensions:
HL12 - BH12 - LM24
HL24 - BSA1



Technical features

POWER SUPPLY	.11 ÷ 15 VDC
IDLING CURRENT	.1.7 A
IDLING CURRENT WHEN OFF	< 0.04 mA
CONTINUOUS NOMINAL POWER Tol.: (+10%/-5%); 0.3% THD; 12 VDC	
2 ch on 4 Ohms	.125 W + 125 W (RMS)
CONTINUOUS POWER Tol.: (+10%/-5%); 1% THD; 12,6 VDC	
2 ch on 4 Ohms	.160 W + 160 W (RMS)
CONTINUOUS POWER Tol.: (+10%/-5%); 1% THD; 13,8 VDC	
2 ch on 4 Ohms	.160 W + 160 W (RMS)
2 ch on 2 Ohms	.280 W + 280 W (RMS)
2 ch on 1 Ohm	.420 W + 420 W (RMS)
1 ch bridged on 4 Ohms	.560 W (RMS)
1 ch bridged on 2 Ohms	.840 W (RMS)
THD DISTORTION (1 kHz; 90% Nominal Power)	.0.02 %
IMD DISTORTION (90% Nominal Power)	.0.06 %
BANDWIDTH (-3dB; Nominal Power)	.2 Hz - 70 kHz
S/N RATIO (A weighed - 1 VRMS input)	.100 dBA
REMOTE IN	.7 ÷ 15 VDC
REMOTE OUT	.12 VDC - 150 mA
INPUT SENSITIVITY (high)	.0.15 ÷ 1.5 VRMS
INPUT SENSITIVITY (low)	.0.50 ÷ 5.0 VRMS
INPUT IMPEDANCE	.15 kOhms
LOAD IMPEDANCE (stereo)	.8 - 4 - 2 - 1 Ohm
LOAD IMPEDANCE (bridged)	.8 - 4 - 2 Ohms
SIZE (W x H x D) mm	.240 x 64 x 382
SIZE (W x H x D) inches	.9.4 x 2.5 x 15
INTERNAL FUSE	.60A

ABSORBED CURRENT AT MAXIMUM MUSICAL POWER - EXTERNAL FUSE CHOICE

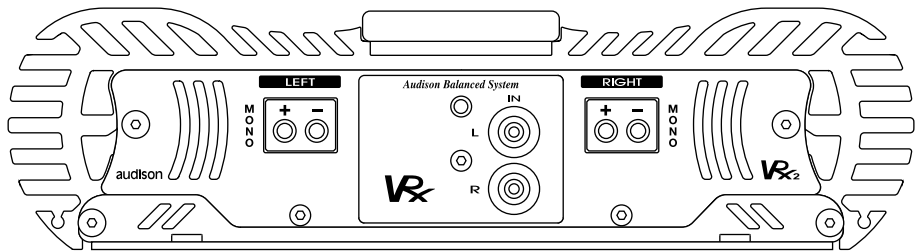
13.8V - 4 Ohms stereo or 8 Ohms bridged	.19 A
13.8V - 2 Ohms stereo or 4 Ohms bridged	.36 A
13.8V - 1 Ohm or 2 Ohms bridged	.59 A

Measures were realised through a test-set consisting of Rohde & Schwarz UPD audio analyser, HP 6453A power supply (200A continuous) and 14F capacitive booster made with **audison cable Superfarad** capacitors.

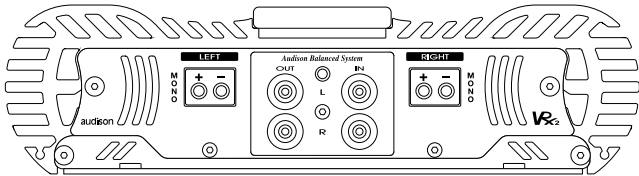
Please always choose a fuse of equal or slightly higher value (max 10%) than indicated.

Note: The use of MAC2 cooling system is strongly recommended when the amplifier is employed at full power with 1 Ohm stereo or 2 Ohm bridged loads.

VRx2.150



Inputs panel with
multichannel
extensions:
HL12 - BH12 - LM24
HL24 - BSA1



Technical features

POWER SUPPLY	11 ÷ 15 VDC
IDLING CURRENT	1.4 A
IDLING CURRENT WHEN OFF	< 0.04 mA
CONTINUOUS NOMINAL POWER Tol.: (+10%/-5%); 0.3% THD; 12 VDC	
2 ch on 4 Ohms	75 W + 75 W (RMS)
CONTINUOUS POWER Tol.: (+10%/-5%); 1% THD; 12,6 VDC	
2 ch on 4 Ohms	110 W + 110 W (RMS)
CONTINUOUS POWER Tol.: (+10%/-5%); 1% THD; 13,8 VDC	
2 ch on 4 Ohms	110 W + 110 W (RMS)
2 ch on 2 Ohms	180 W + 180 W (RMS)
2 ch on 1 Ohm	240 W + 240 W (RMS)
1 ch Bridged on 4 Ohms	360 W (RMS)
1 ch Bridged on 2 Ohms	480 W (RMS)
THD DISTORTION (1 kHz; 90% Nominal Power)	0.02 %
IMD DISTORTION (90% Nominal Power)	0.04 %
BANDWIDTH (-3dB; Nominal Power)	2 Hz ÷ 70 kHz
S/N RATIO (A weighed - 1 VRMS input)	100 dBA
REMOTE IN	7 ÷ 15 VDC
REMOTE OUT	12 VDC - 150 mA
INPUT SENSITIVITY (high)	0.15 ÷ 1.5 VRMS
INPUT SENSITIVITY (low)	0.50 ÷ 5.0 VRMS
INPUT IMPEDANCE	15 kOhms
LOAD IMPEDANCE (stereo)	8 - 4 - 2 - 1 Ohm
LOAD IMPEDANCE (bridged)	8 - 4 - 2 Ohms
SIZE (W x H x D) mm	240 x 64 x 332
SIZE (W x H x D) inches	9.4 x 2.5 x 13
INTERNAL FUSE	40A

ABSORBED CURRENT AT MAXIMUM MUSICAL POWER - EXTERNAL FUSE CHOICE

13.8V - 4 Ohms stereo or 8 Ohms bridged	14 A
13.8V - 2 Ohms stereo or 4 Ohms bridged	23 A
13.8V - 1 Ohm stereo or 2 Ohms bridged	37 A

Measures were realised through a test-set consisting of Rohde & Schwarz UPD audio analyser, HP 6453A power supply (200A continuous) and 14F capacitive booster made with **audison cable Superfarad** capacitors.

Please always choose a fuse of equal or slightly higher value (max 10%) than indicated.

Note:
The use of MAC2 cooling system is strongly recommended when the amplifier is employed at full power with 1 Ohm stereo or 2 Ohm bridged loads.



2000 EDITION

VRx INSTALLATION

- General recommendations
- Cables size
- External fuse size and location
- Internal fuse replacement
- VRx size

GENERAL RECOMMENDATIONS

Audison would like to thank you for choosing this product.
Before the information relative to its use, please carefully read the safety norms you have to respect in order to avoid unpleasant inconveniences and to get the best enjoyment.

WARNING!

- Do not remove the cover in order to reduce the risk of serious technical inconveniences.
- Please apply to qualified staff for every necessary intervention inside the amplifier.
- For safe driving, we advise to listen to music at a volume level which won't draw external traffic sounds.

WARNINGS

INPUTS: If the source does not share the output ground with the chassis and if you hear parasite noise, the braided shield of the shielded cable has to be connected to the source chassis.

OUTPUTS: Never connect -R and -L outputs to ground or to each other. If a crossover filter is used, be sure its two channels do not have a common ground.

ADJUSTMENTS: Please act as follows in order to calibrate the amplifiers level in the right way:

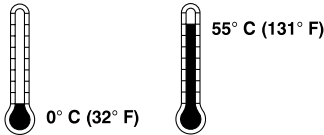
- Select the most suitable sensitivity range (0.15÷1.5V or 0.5÷5.0V) to the source you want to use through the proper switch.
- Turn the amplifiers level controls towards minimum sensitivity (range ref.: 2).
- Put the source volume control around 3/4 of maximum level and start a very dynamic musical track.
- Turn the amplifiers level controls towards maximum sensitivity (range ref: 10) in order to cause the intermittent lighting of the proper saturation leds (peak).

In multichannel amplification, levels adjustment must be optimised in order to get the maximum balance between the different ways of the system.

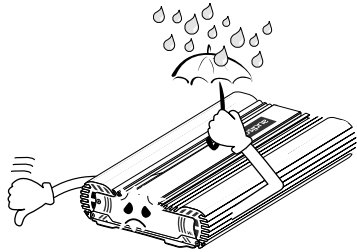
PRECAUTIONS

WARNING!

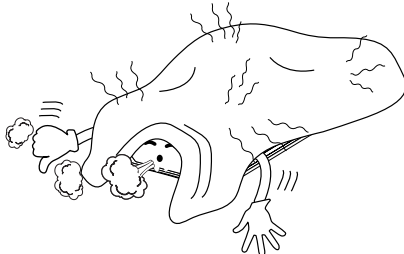
This amplifier must be exclusively used into vehicles and boats with 12 Volt power supply in direct current (12V d.c.), with negative to ground. It is IMPORTANT NOT TO USE any other kinds of electric power supply in order to avoid fires or possible electrocutions.



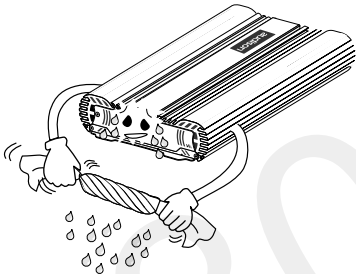
Do not use VRx if temperature is below 0°C (32°F) or above 55°C (131°F).



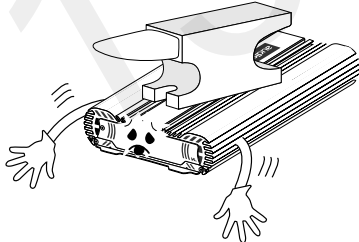
Do not make VRx touch liquids.



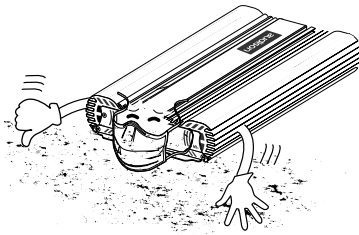
Do not cover VRx heat sink and do not obstruct its cooling ducts.



Do not use VRx in case of extreme humidity conditions (<10% or >90%).



Do not put heavy objects onto VRx.



Avoid to install VRx in dusty or dirty places.



2000 EDITION VRx2.150

VRx2.250

VRX2.400



CABLES SIZE

Power supply cables

Power supply cables size is very important since quality of the amplifier performances, reliability and, above all, installation safety depend on it. As this matter is complex, varied and important, we recommend you to address **audison**'s specialised centres, where highly qualified professionals will be able to carry out these operations in the best way, realising a state-of-the-art installation.

Signal cables

Used signal cables must be of the highest quality in order to allow music perfect reproduction preserving it from disturbances or dispersion.

VRx amplifiers perform at their best when they are used in balanced configuration, which minimises the problems due to disturbances and noise. **audison cable** catalogue makes the exclusive **ABS** connections system available in order to realise it.

It is also possible to opt for an unbalanced connection system; you can choose among a wide variety of good quality models in **audison cable** catalogue to make it.

audison cable ABS connections (international patent) solve the problems relative to the big size of connectors normally used for balanced configuration in an extremely reliable, elegant and practical way. Their compatibility with standard RCA connectors allows the user to act freely during the installation. 24K gold-plated and mechanically refined, they are a reference for really hi-end systems.

Speaker cables

Speaker cables section will have to be as big as possible and anyway not lower than 2.1 mm² (14 AWG) in order to obtain:

- excellent damping on the speaker;
- wide safety margin;
- very good transfer of musical signal.

audison cable catalogue includes a wide choice of models which can satisfy all needs.

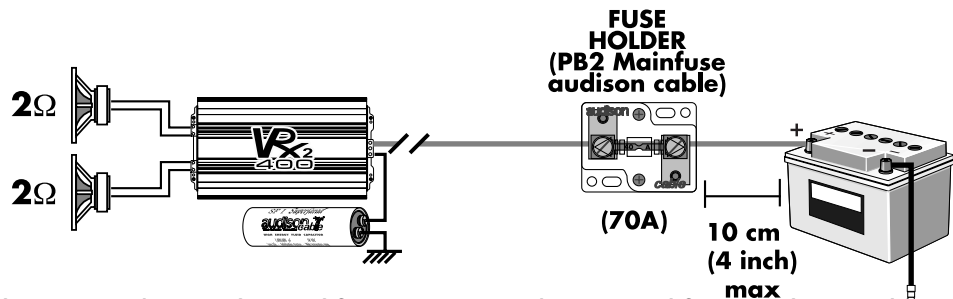
We recommend you to apply to **audison**'s specialised centres where highly qualified professionals will be able to carry out these operations in the best way, realising a state-of-the-art installation.

EXTERNAL FUSE SIZE AND LOCATION

External fuse size must be calculated according to the type of system you want to realise and to its being made of a single amplifier or multiamplified.

System with a single amplifier

In case of a system with a single amplifier, please refer to item: "Absorbed current at maximum musical power", written in the Technical Features of the used amplifier, in order to calculate the external fuse value.



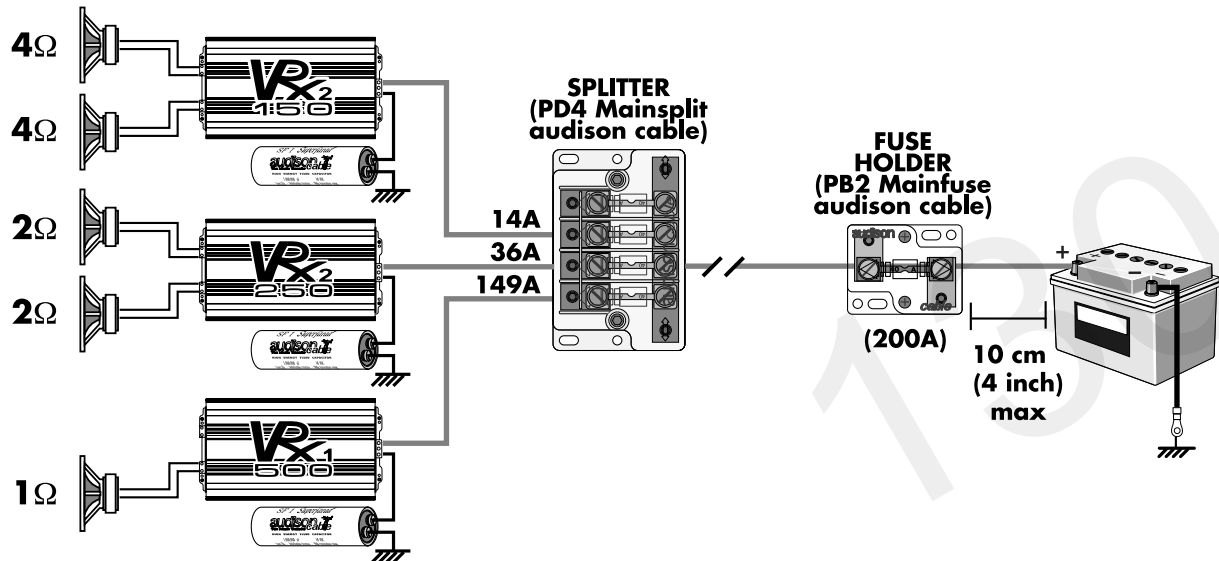
In a hypothetical system with a single amplifier (VRx2.400), the external fuse (Audison Cable MAINFUSE) value for a 2 Ohm load would be 70A, rounding off what written in the Technical Features (65A).

Note: Values and models of the example are purely indicative and **only** used to explain the calculation procedure.

We recommend to use Audison Cable MAINFUSE devices as fuse holder.

Multiamplified system

In case of a multiamplified system, you have to sum the absorption of every used amplifier according to the applied load in order to get the external fuse value.



In a hypothetical system consisting of three amplifiers (VRx2.150 – VRx2.250 – VRx1.500), the external fuse value would be thus defined by the sum:

14A (VRx2.150 on 4Ω load, see Technical Features)
36A (VRx2.250 on 2Ω load)
149A (VRX1.500 on 1Ω load)

$(14+36+149)A = 199A \rightarrow 200A$

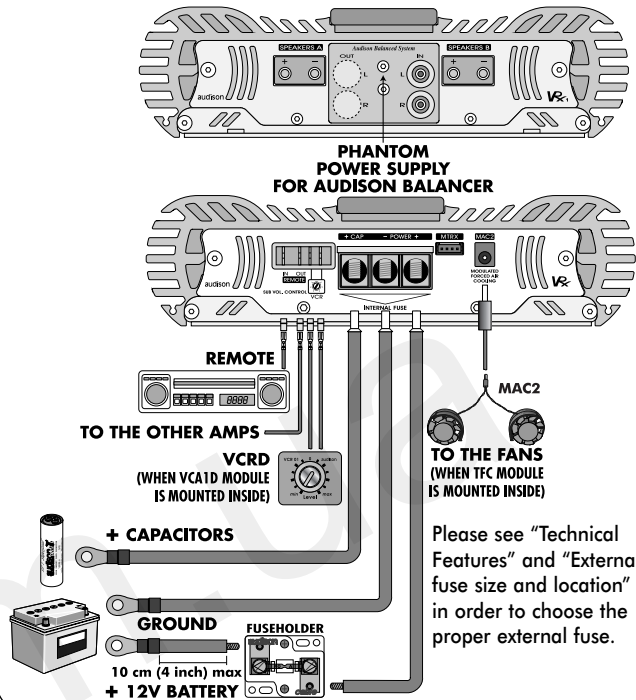
Note: Values and models of the example are purely indicative and **only** used to explain the calculation procedure.

We recommend to use Audison Cable MAINSPLIT as splitter (power distribution block), which contains proper locations for further fuses. Obviously, the size of the latter will have to be defined according to the single amplifier absorption, depending on applied load.

We recommend to use Audison Cable MAINFUSE devices as fuse holder.

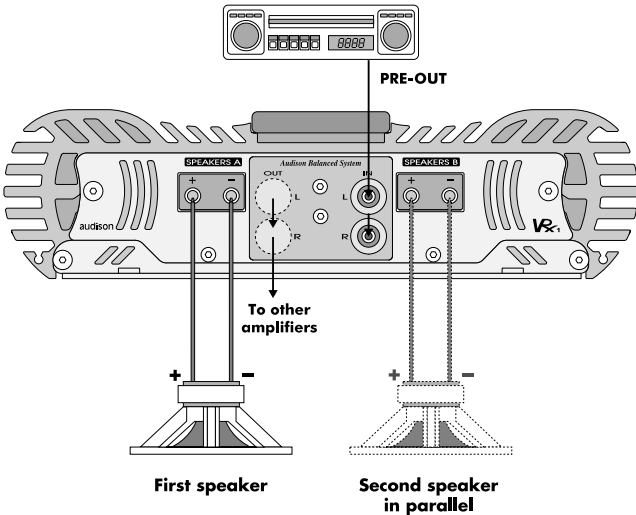
VRx1.500 connections

Power supply, remote and accessories

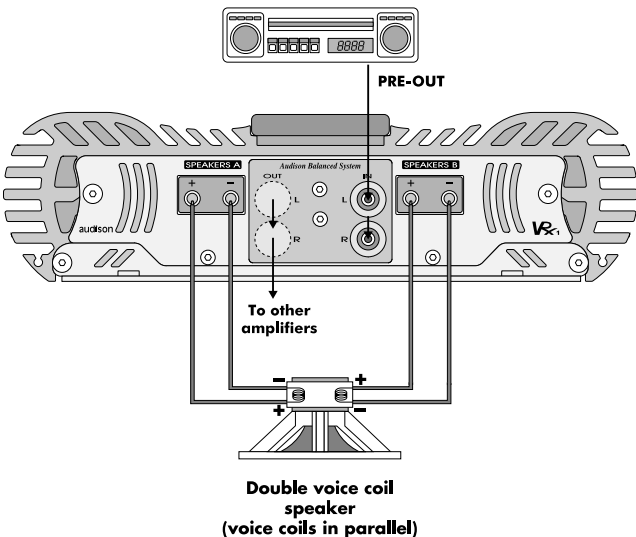


Please see "Technical Features" and "External fuse size and location" in order to choose the proper external fuse.

Inputs and outputs:
one or two speakers in parallel



Inputs and outputs:
double voice coil speaker with voice
coils in parallel



WARNING

When VRx1.500 is used with low impedance loads (1 Ohm), it supplies 2000W approx. and absorbs high currents (300 A approx. in impulsive functioning). In order to get the best performances by the system and the **car safety**, it is necessary to carefully choose the right size of power supply and speaker cables, fuse and fuse holder, battery and power supply distribution systems. **Connections safety** must be also carefully checked in order to avoid voltage drops implying **overheating**.

WHERE TO PUT MODULAR EXTENSIONS

VRx1.500

VRX1C VRx1 controls.
They must not be removed.

**MULTICHANNEL
EXTENSIONS**
HL12 - LM24
HL24 - BSA1

DMRX socket for a
future extension. Do
not put any modules
into it.

**CONTROL
EXTENSIONS**
Socket for:

VCA - VCA1D, given
with VCRDK

**CONTROL
EXTENSIONS**
PC36

**CONTROL
EXTENSIONS**
SM24

DHF VRx1 driver stage.
It must not be removed.

**CONTROL
EXTENSIONS**
DSC1

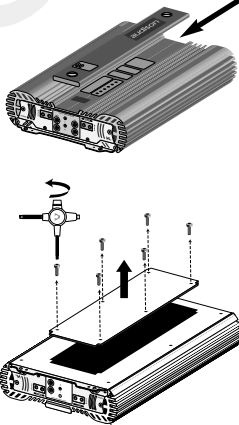
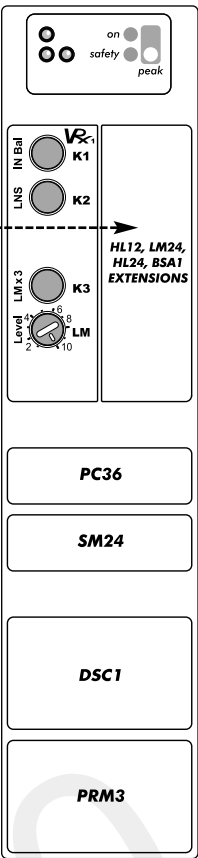
**CONTROL
EXTENSIONS**
PRM3

TPC VRx1 power
supply controller.
It mustn't be removed.

**CONTROL
EXTENSIONS**
TFC
(supplied with MAC2)

	Serial modules
	Modular Extensions
	BYP08 bridge: 4+4 Pins
	BYP12 bridge: 6+6 Pins

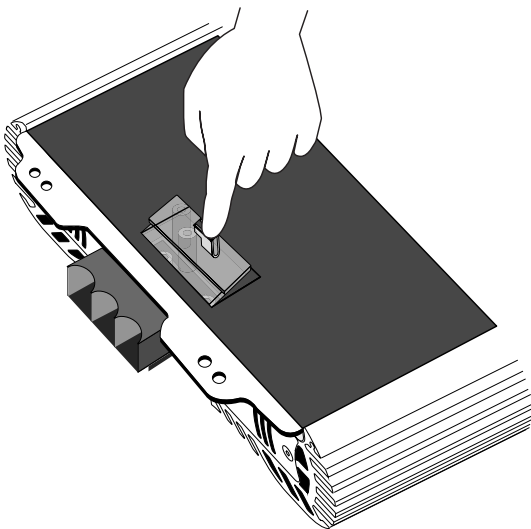
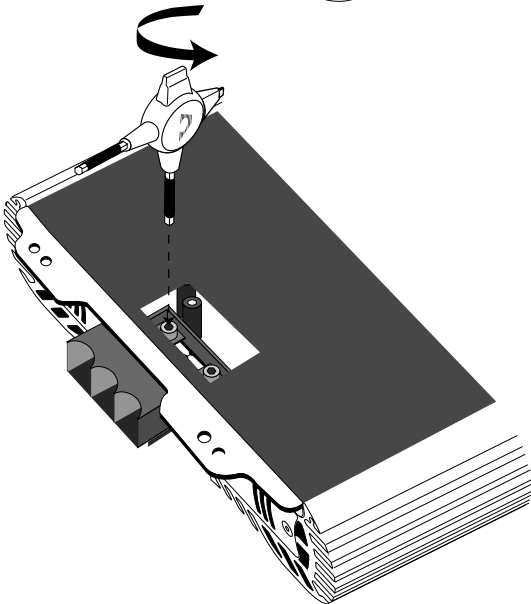
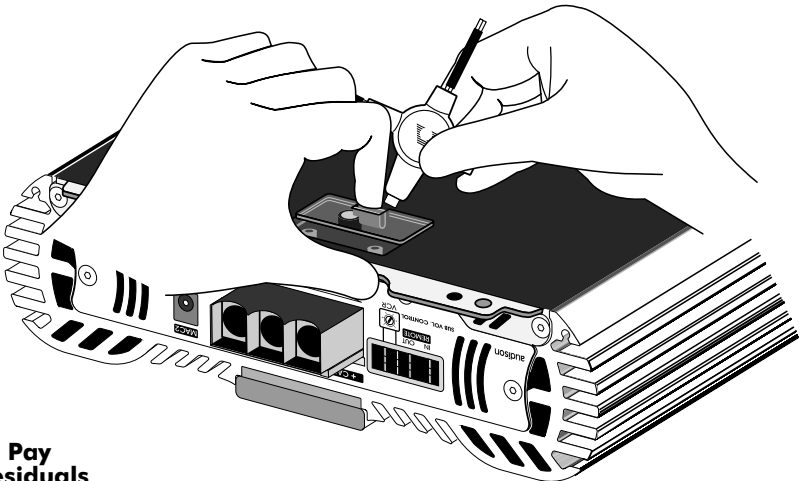
Controls under
wooden strip



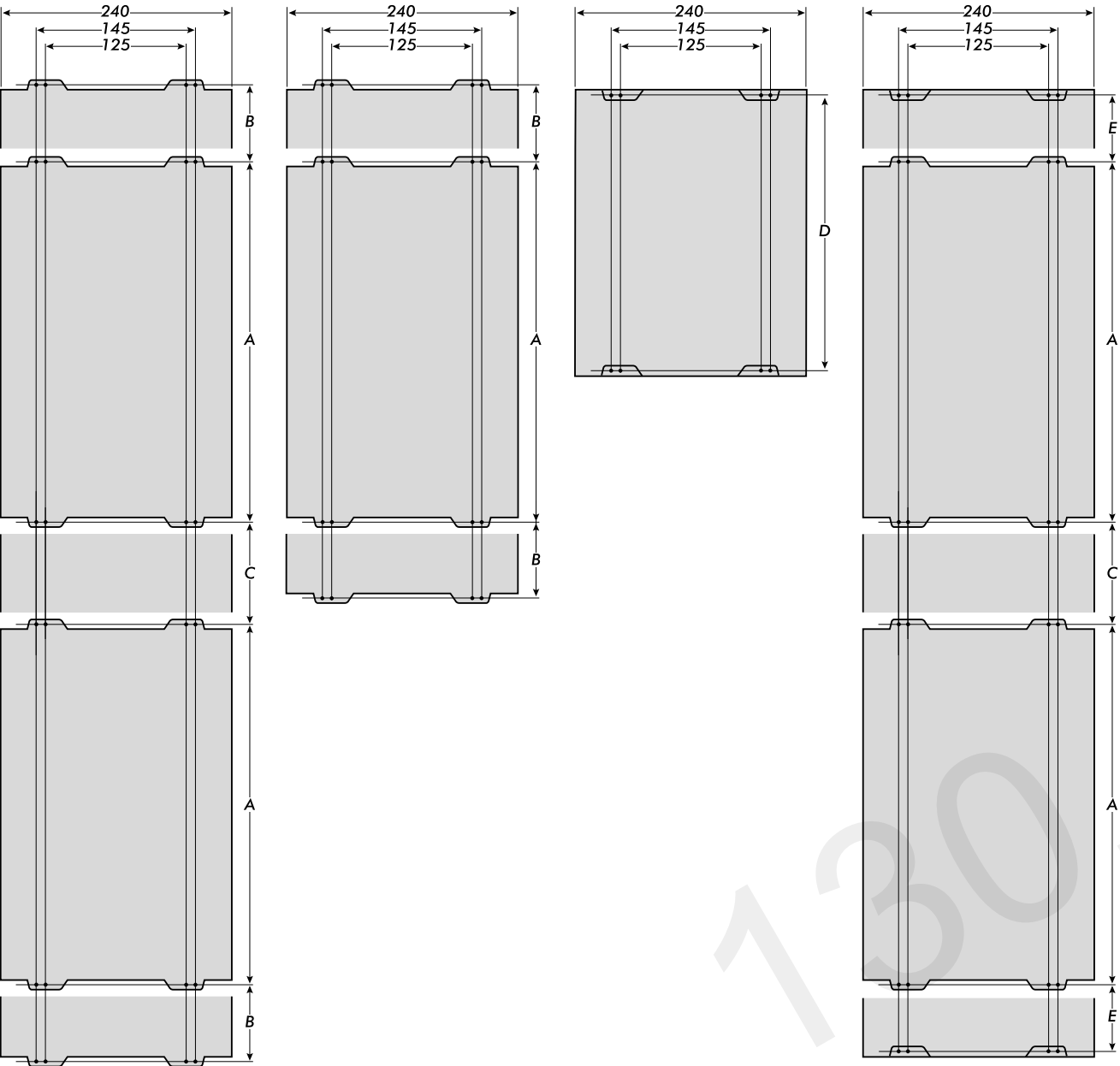
INTERNAL FUSE REPLACEMENT

WARNING!
Before installing a new fuse, please remember to charge the external capacitor (if it is installed) through the special charge-discharge device supplied with Audison Cable Superfarad models. This procedure will prevent all current destined to the external capacitor from passing through the new fuse instantaneously, causing dangerous sparks.

- 1 - Remove the transparent cover which protects fuse holder location.
- 2 - Remove the screws which fasten the fuse. Pay attention not to throw the interrupted fuse residuals inside the device.
- 3 - Check the value of the fuse you have to insert (refer to the value indicated in the fuse location if it is used with not particularly difficult loads).
- 4 - Insert and fix the new fuse by fastening the two screws gradually and alternately, in order to avoid voltage drops along the line and to make the device perfect functioning easier.
- 5 - Close the location through the transparent cover.



VRx size



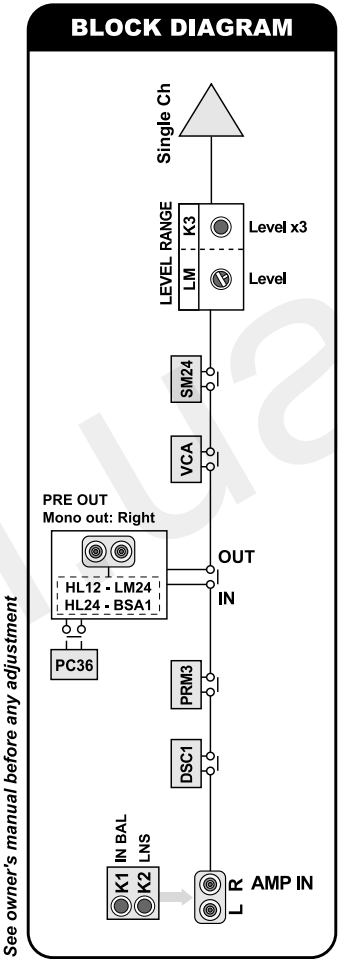
mm	VR _{x1} 500	VR _{x2} 150	VR _{x2} 250	VR _{x2} 400	VR _{x2} 300	VR _{x2} 420	TRM4	TRM6	RC08	RC10	RC12
A	420	320	370	420	475	560					
B							39,5	59,5			
C									62	82	102
D	383	283	333	383	438	523					
E							22	42			

VRx1.500

Short guide under wooden strip

It shows outputs configurations and controls meaning

VR_{x1} controls



• INCOLLARE QUI
LO SCHEMA A BLOCCHI
DELLA MULTICHANNEL
EXTENSION

• STICK THE
MULTICHANNEL
EXTENSION BLOCK
DIAGRAM HERE

• COLLER ICI LE
SCHEMA DE BRANCHEMENT
D'EXTENSION
MULTICHANNEL

• KLEBEN SIE DAS
MULTICHANNEL
EXTENSION BLOCK
DIAGRAM HIER

K1 ☐ B Balanced ☐ U Unbalanced **Amp in: IN** **Bal**

K2 ☐ OFF ☐ ON **Line Noise Suppressor** **L N S**

K3 ☐ H 0.15 ÷ 1.5V ☐ L 0.5 ÷ 5V **IN sensitivity range** **LEVEL x3**

LM ☐ 4 ☐ 6 ☐ 8 ☐ 10 **Level** **Range K3** **LEVEL**

• INCOLLARE QUI
LA GUIDA RAPIDA
DELLA MULTICHANNEL
EXTENSION

• STICK THE
MULTICHANNEL
EXTENSION SHORT
GUIDE HERE

• COLLER ICI LE
RESUME DU MANUAL
D'UTILISATION D'EXTENSION
MULTICHANNEL

• KLEBEN SIE DIE
MULTICHANNEL EXTENSION
KURZ-BESCHREIBUNG
HIER

PC36 Continuous phase controller

YH ☐ ON ☐ OFF **PC36 on** **PC36 by-pass**

40÷200 Hz (factory preset); 200÷800 Hz; 800÷4500 Hz 3 pos. internal presets

SM24 Subsonic mono filter

WF ☐ ON ☐ OFF **SM24 on** **SM24 by-pass**

DSC1 Dynamic sub control

PG ☐ 0.4 ☐ 1.0 ☐ 3.0 ☐ 5.0 ☐ 7.5 ☐ 8.5 ☐ 9.0 **Gain adjustment** **- dB -**

PT ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 **Standard adj.** **Time delay adjustment**

PF ☐ 45 ☐ 52 ☐ 60 ☐ 68 ☐ 75 ☐ 82 ☐ 90 **Frequency adjustment** **- Hz -**

PRM3 Parametric equaliser

JF ☐ ON ☐ OFF **PRM3 on** **PRM3 by-pass**

JM ☐ ON ☐ OFF **Activates JX** **20 Hz ÷ 200 Hz**

JX ☐ x 100 **2 KHz ÷ 20 KHz** ☐ x 10 **200 Hz ÷ 2 KHz**

JB ☐ ON ☐ OFF **PRM3 on** **PRM3 by-pass**

JL ☐ -3 ☐ -6 ☐ -8 ☐ -9 ☐ +3 ☐ +6 ☐ +8 ☐ +9 **Level adjustment** **- dB -**

JQ ☐ 1.15 ☐ 1.2 ☐ 1.5 ☐ 2.5 ☐ 3.4 **Q adjustment**

MULTICHANNEL EXTENSIONS

HL12 Hi/Lo-pass stereo, 12 dB/Oct.

LM24 Lo-pass mono, 24 dB/Oct.

HL24 Lo-pass mono for Sub, 24 dB/Oct. and Hi-pass stereo, 12 dB/Oct.

BSA1 Line repeater and balancer

VRx1.500

Controls and functions

Leds

ON - Green led

It indicates the amplifier is on.

SAFETY - Red led

It indicates protection intervention: excessively high temperature or output anomalies (direct current, short circuit or dangerously low load impedance). Protection intervention stops the amplifier functioning. Switch the amplifier off; when anomaly is eliminated, switch the amplifier on again.

PEAK - Orange led

It is on when VRx amplifier is about to reach distortion threshold. It is useful to adjust inputs sensitivity.

Short guide

K1	☐ B Balanced ☐ U Unbalanced	Amp in: R only	IN Bal
K2	☐ OFF ☐ ON	Line Noise Suppressor	L NS
K3	☐ H 0.15 ÷ 1.5V ☐ L 0.5 ÷ 5V	IN sensitivity range	LEVEL x3
LM	4 6 8 10 2	Level Range K3	LEVEL

Controls description

K1 - Bal/Unbal inputs switch.

K2 - LNS circuit **ON/OFF** switch for line noise suppression.

K3 - It selects **sensitivity range**.

LM - Amplifier input **sensitivity adjustment**.

Note: In case of installations with more amplifiers connected in cascade, we recommend to put **K2** onto **ON** in the first device (i.e. the one which receives the signal from the head unit), leaving it onto **OFF** in the others.

If disturbance persists, you can activate **LNS** anti-noise circuit also in the other amplifiers.

Controls under wooden strip

☐ on
☐ safety
☐ peak

☐ VRx1
☐ K1
☐ LNS
☐ K2
☐ LM x3
☐ K3
☐ LM

HL12, LM24,
HL24, BSA1
EXTENSIONS

PC36

SM24

DSC1

PRM3

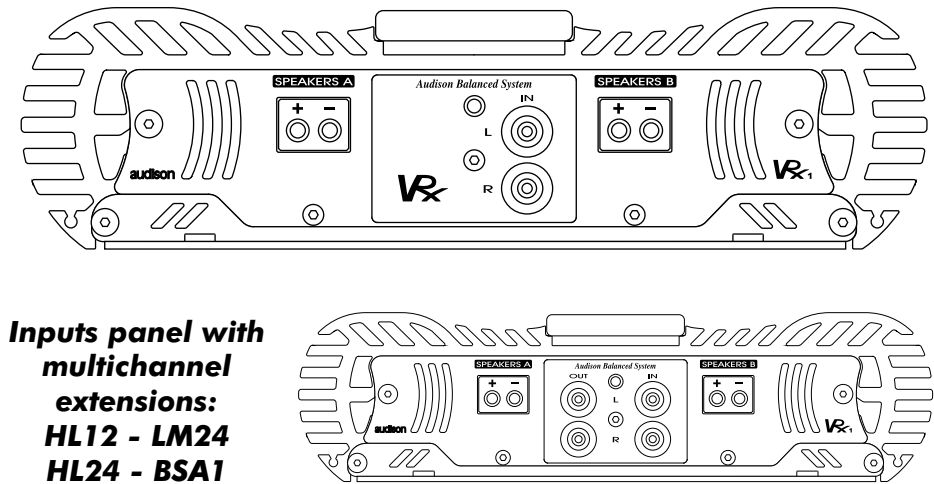
VRx

audison

2000 EDITION VRx1.500



VRx1.500



Inputs panel with
multichannel
extensions:
HL12 - LM24
HL24 - BSA1

Technical features

POWER SUPPLY	11 ÷ 15 VDC
IDLING CURRENT	1.8 A
IDLING CURRENT WHEN OFF	< 0.04 mA
CONTINUOUS NOMINAL POWER Tol.: (+10%/-5%); 0.3% THD; 12 VDC	
1 ch on 4 Ohms	500 W (RMS)
CONTINUOUS POWER Tol.: (+10%/-5%); 1% THD; 12,6 VDC	
1 ch on 4 Ohms	560 W (RMS)
CONTINUOUS POWER Tol.: (+10%/-5%); 1% THD; 13,8 VDC	
1 ch on 4 Ohms	560 W (RMS)
1 ch on 2 Ohms	1080 W (RMS)
1 ch on 1 Ohm	2000 W (RMS)
THD DISTORTION (1 kHz; 90% Nominal Power)	0.01 %
IMD DISTORTION (90% Nominal Power)	0.05 %
BANDWIDTH (-3dB; Nominal Power)	2 Hz ÷ 50 kHz
S/N RATIO (A weighed - 1 VRMS input)	100 dBA
REMOTE IN	7 ÷ 15 VDC
REMOTE OUT	12 VDC - 150 mA
INPUT SENSITIVITY (high)	0.15 ÷ 1.5 VRMS
INPUT SENSITIVITY (low)	0.50 ÷ 5.0 VRMS
INPUT IMPEDANCE	15 kOhms
LOAD IMPEDANCE	8 - 4 - 2 - 1 Ohm
SIZE (W x H x D) mm	240 x 64 x 432
SIZE (W x H x D) inches	9.4 x 2.5 x 17
INTERNAL FUSE	150A

ABSORBED CURRENT AT MAXIMUM MUSICAL POWER - EXTERNAL FUSE CHOICE

13,8V - 4 Ohm	32 A
13,8V - 2 Ohm	68 A
13,8V - 1 Ohm	149 A

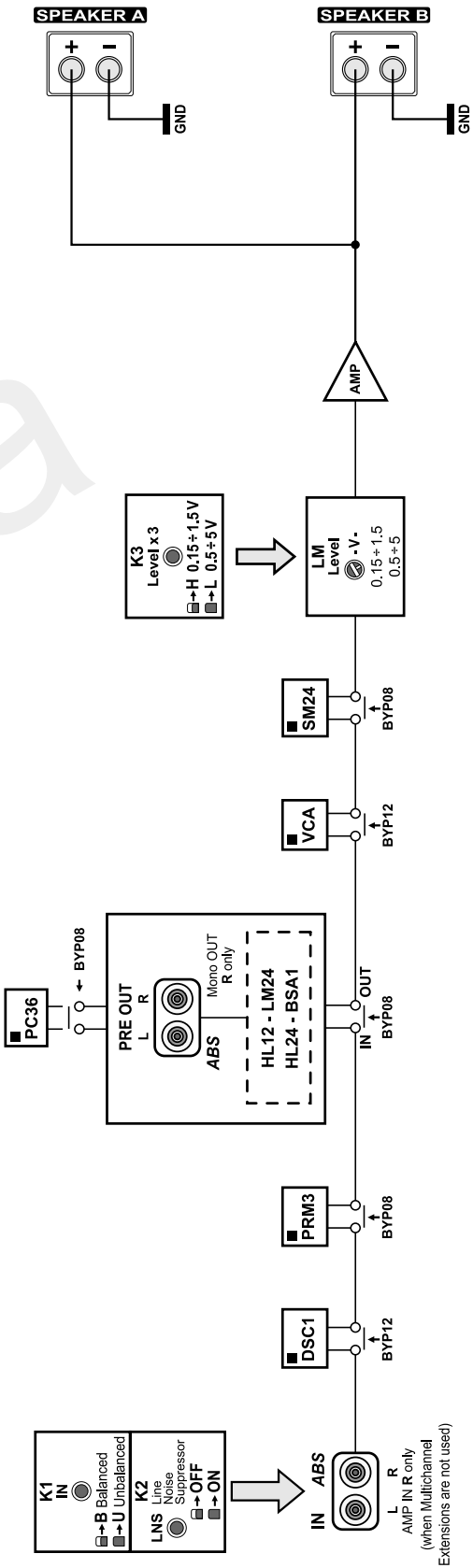
Measures were realised through a test-set consisting of Rohde & Schwarz UPD audio analyser, HP 6453A power supply (200A continuous) and 14F capacitive booster made with **audison cable Superfarad** capacitors.

Please always choose a fuse of equal or slightly higher value (max 10%) than indicated.

Note:
The use of MAC2 cooling system is strongly recommended when the amplifier is employed at full power with 2 Ohm or 1 Ohm loads.

VRx1.500

Block diagram



Optional modules