Limited Warranty:

RE Audio warrants all manufactured electronic products to be free from defects in material and workmanship for a period not to exceed ONE YEAR from the date of purchase.

IMPORTANT WARRANTY NOTICE: RE Audio will only warrant and service products displaying valid RE Audio serial numbers. WARRANTY SERVICE WILL ONLY BE PERFORMED WHEN THE UNIT IS ACCOMPANIED BY A COPY OF THE ORIGINAL SALES RECEIPT FROM AN AUTHORIZED DEALER. All product returned to RE Audio for service MUST be accompanied by a Return Authorization Number, issued by RE Audio in advance of shipment. The Return Authorization Number must be clearly and conspicuously displayed on the shipping carton or RE Audio will refuse delivery.

For Return Authorization Numbers, first call your RE Audio dealer you purchased the products from. The dealer will help you to obtain Return Authorization Numbers. This warranty extends only to the original purchaser and is not transferable. Defective equipment must be returned within the warranty period, freight prepaid, to the RE Audio Factory or an Authorized RE Audio Warranty Station.

This warranty covers only detects in materials and workmanship of manufactured electronic products(amplifiers). Incidents of misuse, abuse, neglect, or unauthorized modification will not be covered within the terms of this warranty.

RE Audio reserves the right to refuse warranty service under such conditions.

RE Audio WILL NOT BE RESPONSIBLE FOR ANY DAMAGES, WHETHER INCIDENTAL OR CONSEQUENTIAL, RELATED TO THE USE OF THIS OR ANY OTHER PRODUCT BEARING OR SOLD UNDER THE RE Audio BRAND NAME. USE THIS PRODUCT AT YOUR OWN RISK. IMPROPER USE OF THIS PRODUCT CAN RESULT IN PROPERTY DAMAGE, BODILY HARM, AND OR OTHER DAMAGE. RE Audio ASSUMES NO RESPONSIBILITY FOR YOUR HEALTH OR SAFETY.





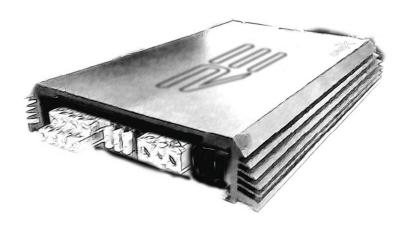
25002-Channel High Speed Digital Stereo Amplifier

42504-Channel High Speed Digital Stereo Amplifier



45KV.1/65KV.1

Class-DE Monoblock Amplifier



Owners Manual & Installation Guide



usamps.com / reaudio.com

Congratulations

on your selection of a RE Audio US series amplifier.

We take pride in manufacturing our products and you can expect your new amplifier to give you years of trouble-free service.

To make your installation as easy and reliable as possible, please read this manual carefully before beginning.

If you need more information, your RE Audio Dealer will be glad to help. To locate a RE Audio Dealer near you, go to our web site and look for "Locate Dealer".

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TROUBLESHOOTING

Before removing your amplifier, refer to the list below and follow the suggested procedures. Always test the speakers and their wires first.

No Output

- Confirm that all terminal strip connections are secure and tight.
- Check both in-line and built-in fuses.
- Confirm that the audio signal source (car radio, equalizer, etc) is connected and is supplying output signal. To check if the amplifier is supplying signal, unplug the RCA cables from the signal source (but leave them plugged into the amp) and briefly tap the center pin of each of the disconnected RCA plugs with your finger. This should produce a noise (feedback) in your speakers.

Only one channel works

- Confirm that all terminal strip connections are secure and tight.
- Check the "BALANCE" control on the head unit (or other source) to verify that it is set to its mid point.
- If you are using the low-level RCA input, reverse the input plugs at the amplifier (switch the R with the L). If the channel which is silent switches to the other side, the problem is either in the head unit/other source or the connecting cables.

Weak output

• Re-adjust the Input Level Control to better suit the input signal.

Noise in the audio

- If the noise is a "whine" whose pitch follows the engine speed, confirm that the amplifier and any other signal sources (head unit, equalizer, etc) are properly grounded.
- If the noise is a "clicking" or "popping" noise whose rate follows the engine speed, this usually means that the vehicle is equipped with resistor spark plugs and wires, or that the ignition is in need of service.
- Check the routing of the speaker and input wires to make sure they are not adjacent to wires which interconnect with lights and other accessories.
- If the above steps fail to improve or clear noise interference, the system should be checked by a authorized RE Audio Dealer.

SPECIFICATIONS

					2500	4250	45KV.1	65KV.1
Power Output (RMS)		4Ω	% 7.1 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	>	2 × 250	4 × 100	1 × 600	1 × 750
	at full frequency	2Ω) - -	\$	2 × 450	4 x 150	1 × 1000	1 × 1350
	(10Hz~20KHz)	1Ω	100Hz	>			1 x 1500	1 × 2200
-	(before clipping)	4Ω mono	1KHz/100Hz	8	1 × 900	2 × 300	1 × 30001	1 × 44001
Total Harmonic Distortion		4Ω	1KHz/100Hz	%	0.05	0.05	< 0.1	< 0.1
S/N Ratio		Input Short	4Ω	ä	85	85	80	80
Channel Separation @ 42 RMS	S		1KHz/100Hz	an	5		99	8
Power Band Width (Frequency Response)	cy Response)		-1dB	Hz	20~30K	20~30K	15~250	15~250
		Low Pass	24dB	Hz	40~250	40~250	40~250	40~250
Crossover Frequency		Subsonic	24dB	dB	15~40	N/A	15~40	15~40
		High Pass	12dB	Hz	40~1K	40~1K	N/A	N/A
Bass Boost Control @ 45Hz				dВ	0~20	N/A	0~20	0~20
Wired Remote Control					Yes	N/A	Yes	Yes
Bridged Mono Capable					4Ω	4Ω	with MLT ²	with MLT ²
Master Slave Capable					N/A	N/A	Yes	Yes
Gain Control					Yes	Yes	Yes	Yes
Input		level wol		W/Vm	200	200	200	200
Sensitivity		High Leve		^	8	8	8	8
Input Impedance				КΩ	22	22	22	22
Damping Factor				4Ω	>200	>200	>200	>200
Dimensions [(L) in/mm] (W)9,67/2	(W)9.67/245.4 x (H)2.03/51.8			in/mm	19.33/491	15.0/381	17.36/441	22,76/578
Fuse Rating				А	40A x 3	30A x 3	40A x 3	$40A \times 6^{3}$
Protection (thermal, overload, sl	verload, short circuit, DC offset)				Yes	Yes	Yes	Yes
Power Voltage Range				^	10~16V	10∼16V	10~16V	10~16V

FEATURES

POWER SUPPLY

- High-current Matched MOSFET devices
- Magnetic Induction Drive Power Supply
- —Drive pulse down to 9 volts input (45KV.1/65KV.1)
- 35 nanosecond Switching Diodes
- · All metallized, high temperature, low ESR capacitors
- 1008 amps(45KV.1) / 2016 amps(65KV.1) of power devices
- · High capacity power transformer
- Multiple Bypass capacitors on incoming 12 volt supply
- Time delay turn on

Specification subject to change without notice With MLT''' connection(Master/Slave)
Refer to page 8
You may see only 3 fuses from outside, the rest of 3 are inside the amplifier

- Thermal, current, and reverse polarity protection
- New stability filter design for reduction in noise

AMPLIFIERS

- Class DE technology utilizing our Elevated Efficiency Platform (45KV.1/65KV.1)
- Output stages utilize high-current Matched MOSFET devices
- High speed, audio-grade components in all low level stages
- Platinum plated RCA inputs and connectors
- Wide range of sensitivity accepts signal from any head unit including speaker leads
- 24 dB/octave Subsonic Filter (45KV.1/65KV.1) / 24 dB/octave Electronic Crossover
- · Auto bridge feature / Short circuit protection
- 240 amps(45KV.1) / 360 amps(65KV.1) of output devices

INSTALLATION

- Use at least 8-gauge wire for power and ground connections
- Use at least 12-gauge wire for speaker connections
- Use at least 16-gauge wire for remote connection
- Mount the amplifier where it can receive the best ventilation
- Use the shortest ground connection to the chassis of the vehicle and make sure that the paint is removed at the connection point
- Connect the remote input to the remote/antenna output of the head unit
- Mount the fuse holder within 200mm(8") of the vehicle's battery. Use a fuse equal to that specified for your amplifier if a large, single +12V line is run which feeds more than one amplifier add up all required fuse ratings and use the total rating for the fuse
- Connect the speaker to the amplifier observing the correct phasing. Make sure that none of the speaker connections can touch the vehicle chassis
- Connect the RCA inputs to the appropriate signal source using only the highest quality RCA cables
- Make sure that the RCA and speaker cables do not run parallel to the +12V wiring

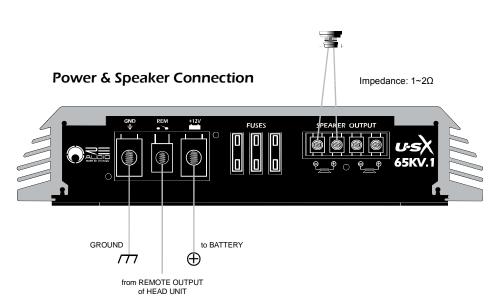
CONNECTIONS

[Basic Wiring]

▲ Monoblock [USX-45KV.1/65KV.1] Amplifiers

RCA Connection





CONNECTIONS

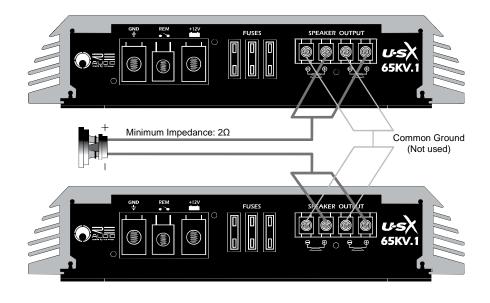
[MLT(Multi-Link Technology)[™] Wiring]

▲ Monoblock [USX-45KV.1/65KV.1] Amplifiers

RCA Connection



Power & Speaker Connection



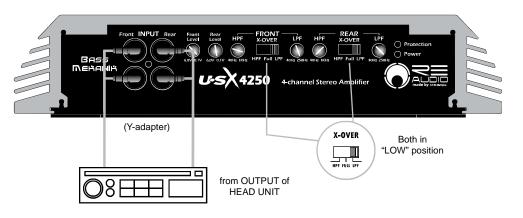
3

CONNECTIONS

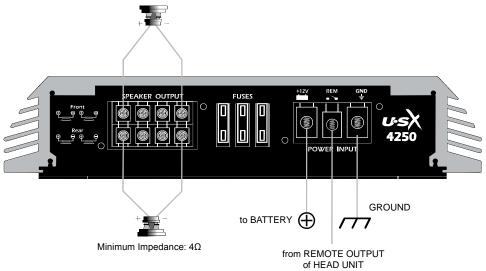
[Bridged Wiring]

▲ 4-channel [USX-4250] Amplifiers

RCA Connection



Power & Speaker Connection

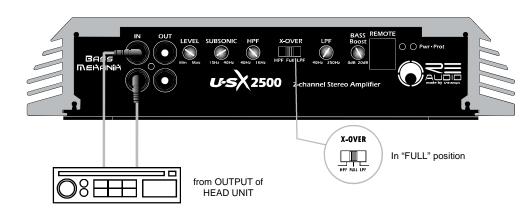


CONNECTIONS

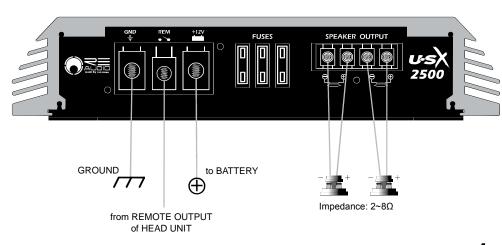
[Basic Wiring]

▲ 2-channel [USX-2500] Amplifiers

RCA Connection



Power & Speaker Connection

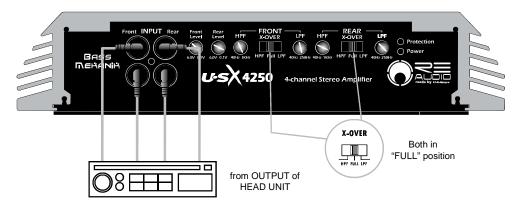


CONNECTIONS

[Basic Wiring]

▲ 4-channel [USX-4250] Amplifiers

RCA Connection

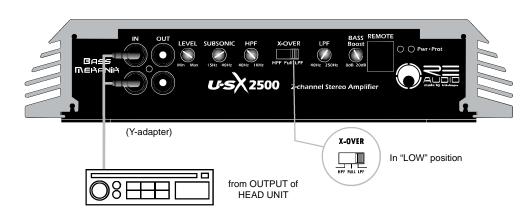


CONNECTIONS

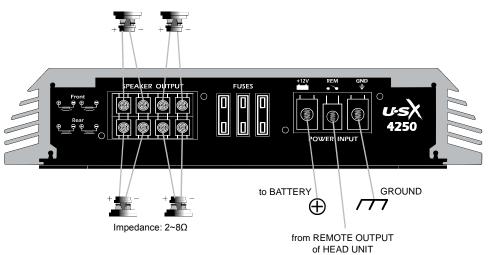
[Bridged Wiring]

▲ 2-channel [USX-2500] Amplifiers

RCA Connection



Power & Speaker Connection



Power & Speaker Connection

