

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. **WAR-RANTY 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 defects 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.



DTX series

Oweners Manual



600.2	—	2-CH MOSFET POWER AMPLIFIER
750.4	—	4-CH MOSFET POWER AMPLIFIER
1600.1	}	CLASS D MONOBLOCK MOSFET POWER AMPLIFIER
2000.1		



Congratulations

on your selection of a RE Audio **DTX** 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

		600.2	750.4	1600.1	2000.1
Power Output (RMS)	4Ω	2 x 60	4 x 60	1 x 350	1 x 430
	2Ω	2 x 80	4 x 80	1 x 550	1 x 700
Total Harmonic Distortion	1Ω	—	—	1 x 750	1 x 1000
	4Ω mono	1 x 160	2 x 160	—	—
S/N Ratio	4Ω	<0.02	<0.02	<0.05	<0.05
	Input Short	100	100	100	100
Channel Separation @ 4Ω RMS	4Ω	10~50K	10~50K	10~250	10~250
	Input Short	50~250	50~250	35~250	35~250
Power Band Width (Frequency Response)	Low Pass	50~250	50~250	10~50	10~50
	Subsonic	—	—	—	—
	High Pass	50~250	50~250	—	—
Damping Factor		180	180	180	180
Bass Boost Control @ 45Hz		0~12	0~12	0~18	0~18
Wired Remote Control		—	—	Yes	Yes
Gain Control		Yes	Yes	Yes	Yes
Input Sensitivity	Low Level	200	200	200	200
	High Level	6	6	6	6
Input Impedance		22	22	22	22
		8.27/210	12.2/310	11.42/290	12.2/310
Dimensions [(L) in/mm]	(W)8.66/220 x (H)1.93/49	25A x 1	40A x 1	40A x 2	40A x 3
		Yes	Yes	Yes	Yes
Fuse Rating		11~15V	11~15V	11~15V	11~15V
Protection (thermal, overload, short circuit, DC offset)		Yes	Yes	Yes	Yes
Power Voltage Range		11~15V	11~15V	11~15V	11~15V

* Specification subject to change without notice

READ FIRST!

It is our recommendation that all RE Audio products should be installed by an authorized dealer.

- Always read the owners manual before using the equipment
- Keep the owners manual in a place where you can easily find it
- The amplifier is only for in-vehicle operation
- Never use the equipment in the vicinity of heat source and/or in direct sunlight
- Make sure that no small objects or liquids can get into the amplifier
- Negative battery terminal must be disconnected before any electrical connections are made

WIRING INSTRUCTIONS

Power Connection

The battery terminal(+12V) must be connected directly to the positive terminal of the vehicle's battery to provide an adequate voltage source and minimize noise. Connecting the battery terminal lead to any other point(such as the fuse block) will reduce the power output and may cause noise and distortion. Use only 8 AWG or thicker(smaller AWG) wire for this lead and connect it to the terminal of the battery after all other wiring is completed.

Ground Connection

The ground terminal(GND) connection is also critical to the correct operation of the amplifier. Use a wire of the same gauge as the power connection(8 AWG or thicker) and connect it bwtween the ground terminal(GND) of the amplifier and a metal part of the vehicle close to the mounting location. This wire should be as short as possible and any paint or rust at the grounding point should be scraped away to provide a clean metal surface to which the end of the ground wire can be screwed or bolted.

Remote Turn-on Connection

The amplifier is turned on by applying +12V to the remote turn-on terminal(REM). The wire lead to this terminal should be connected to the "Auto-Antenna" lead from the head unit. If the head unit does not provide an "Auto-Antenna" lead, the remote turn-on lead may be wired to an "Accessory" or "Radio" terminal in the vehicle's fust block. This will turn the amplifier on or off with the ignition key regardless of whether the head unit is on or off. The remote turn-on lead does not carry large currents. So 20 AWG wire may be used for this application.

Speaker Connection

Depending on the type and number of speakers, connect them to the speaker terminals as shown in the appropriate wiring diagram. For most applications, 16 AWG wire would be adquated, but in no case thinner than 18 AWG. For leads more than 10 feet long, 14 AWG is recommended. When wiring the speakers, pay special attention to the polarity of the terminals. Do not gournnd any speaker leads to the chassis of the vehicle.

FEATURES

- Class D Operation(1600.1/2000.1), Class AB Operation(600.2/750.4)
- MOSFET PWM(Pulse Width Modulation) Power Supply
- Bridgeable Outputs, Tri-mode Capable(600.2/750.4)
- 1 Ohm Stable Mono Operation(1600.1/2000.1)
- 2 Ohm Stable Sterep Operation with Output Increase(600.2/750.4)
- Thermal, DC Offset, Overload, and Speaker Short Protection
- Soft Turn-on Circuit
- Variable Input Gain Control
- Variable Subsonic Filter(1600.1/2000.1)
- Variable Low-pass Crossover
- Variable High-pass Crossover(600.2/750.4)
- Variable 0° to 180° Phase Shift(1600.1/2000.1)
- Variable 0 to +18dB Bass Boost(1600.1/2000.1), 0 to +12dB Bass Boost(600.2/750.4)
- LED Power and Protection Indicators
- Remote Subwoofer Level Control(1600.1/2000.1)

INSTALLATION

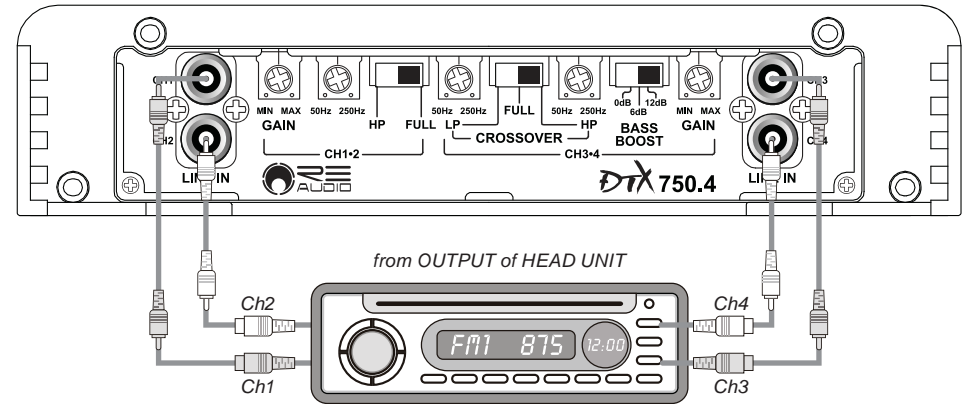
- Please choose a mounting place without any direct weather influences
- Note that the amplifier generates heat so a well ventilated place is necessary
- Use at least 8-gauge wire for power and ground connections
- Use at least 12-gauge wire for speaker connections
- Use at least 16-gauge wire for remote connections
- Keep the wire connections as short as possible in order to minimize power loss and provide a higher audio out quality
- 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

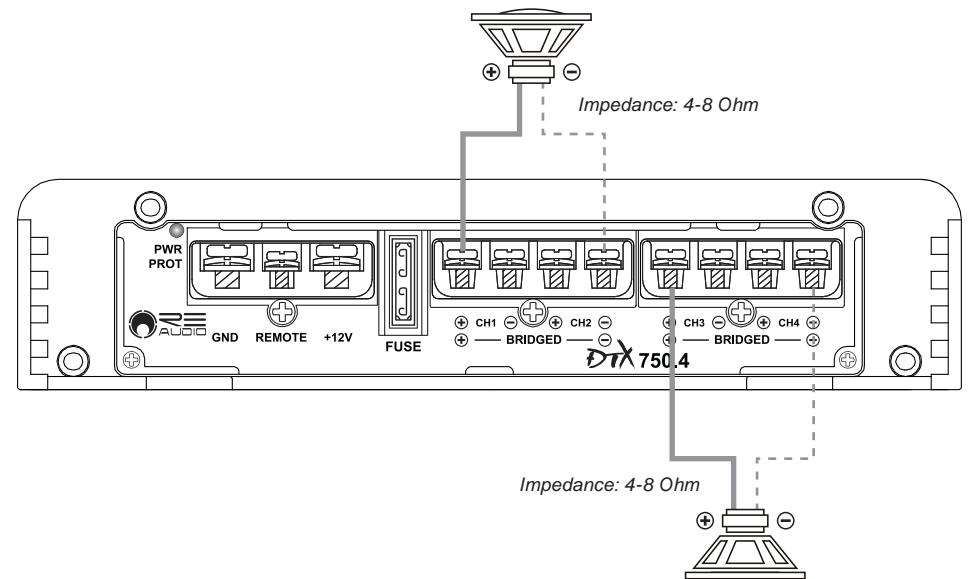
[Bridged Wiring]

▲ 4-channel [DTX-750.4] Amplifiers

RCA Connection



Power & Speaker Connection

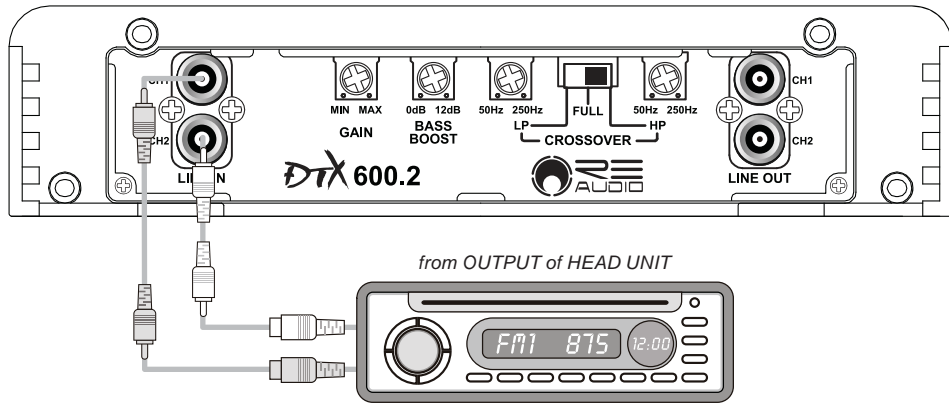


CONNECTIONS

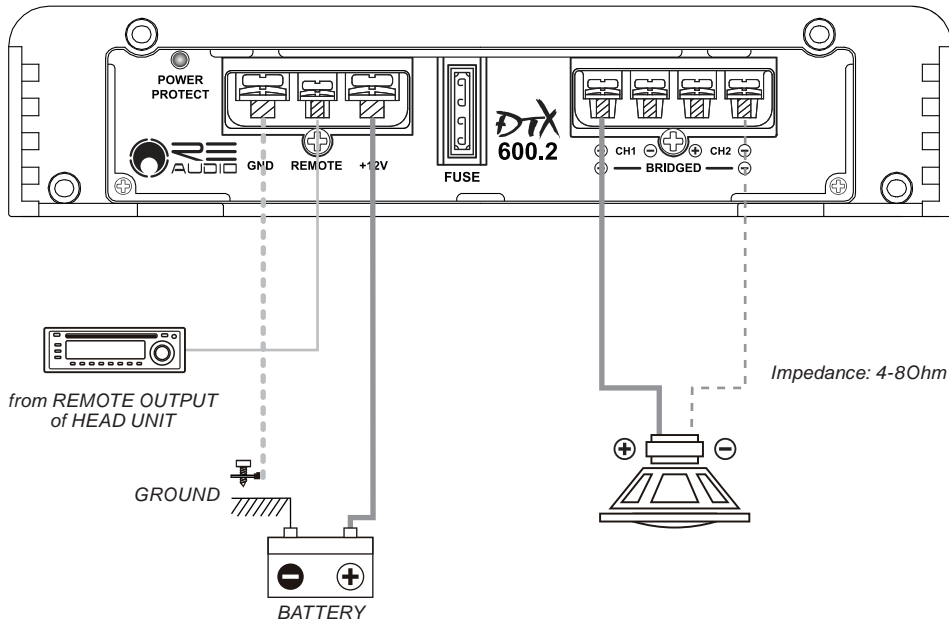
[Bridged Wiring]

▲ 2-channel [DTX-600.2] Amplifiers

RCA Connection



Power & Speaker Connection

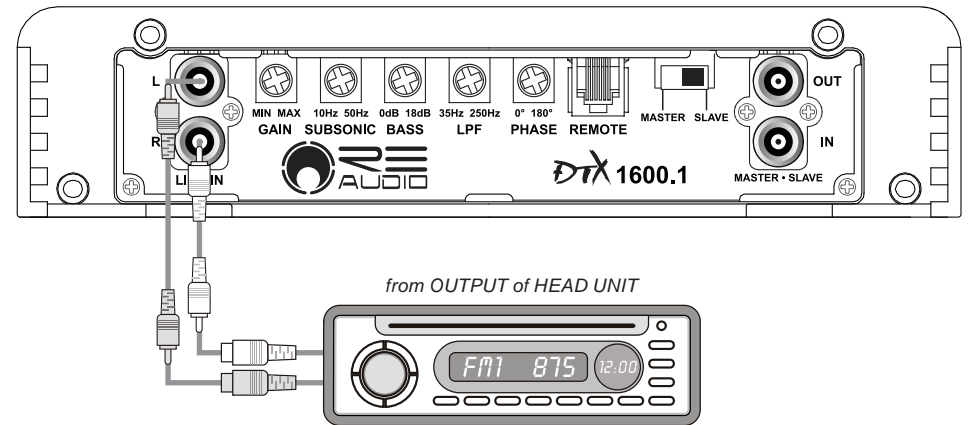


CONNECTIONS

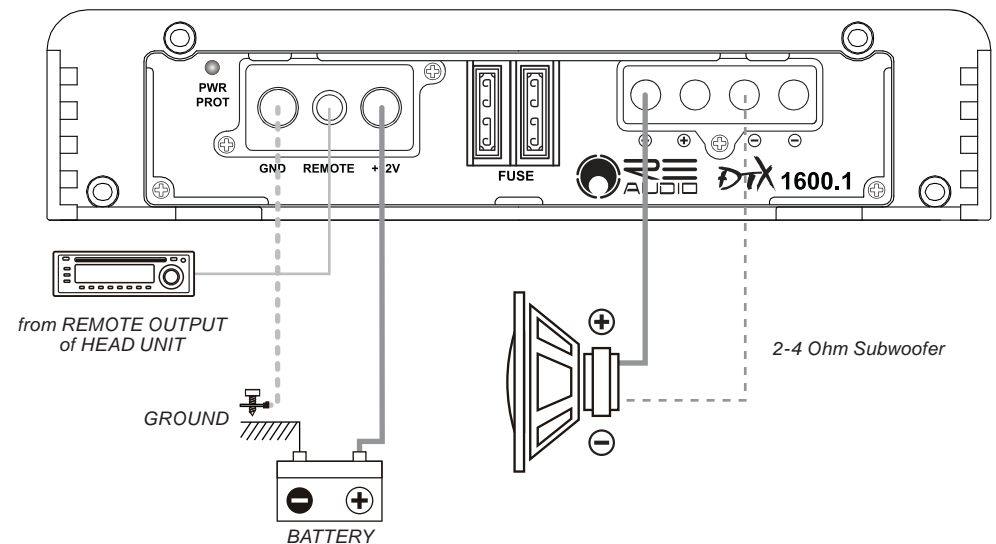
[Basic Wiring]

▲ Monoblock [DTX-1600.1 & 2000.1] Amplifiers

RCA Connection



Power & Speaker Connection

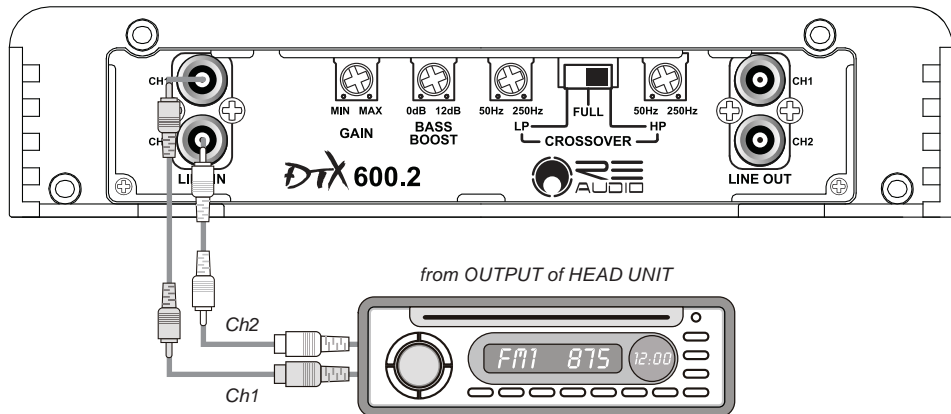


CONNECTIONS

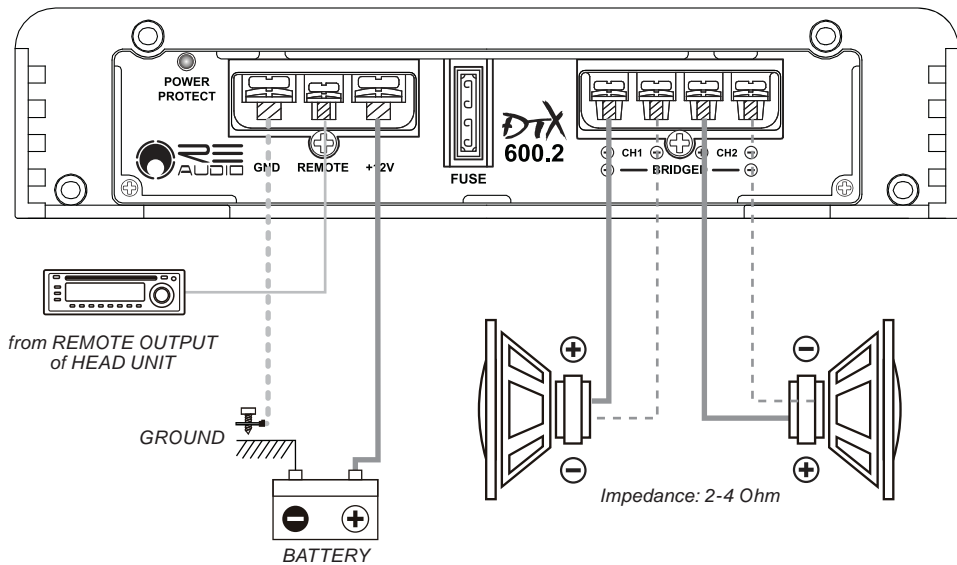
[Basic Wiring]

▲ 2-channel [DTX-600.2] Amplifiers

RCA Connection



Power & Speaker Connection

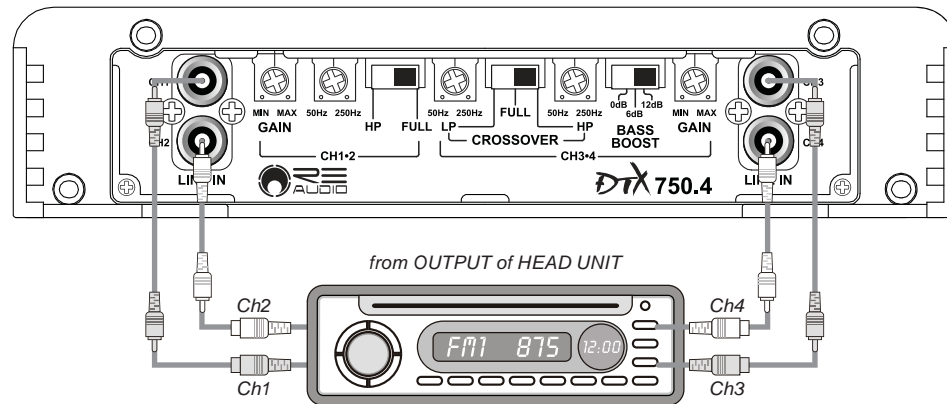


CONNECTIONS

[Basic Wiring]

▲ 4-channel [DTX-750.4] Amplifiers

RCA Connection



Power & Speaker Connection

