

XIA5600 INSTALLATION/OWNER'S MANUAL 2/1-Channel Mobile Power Amplifier

DUAL AUDIO



illumiNIT€™



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Preparation

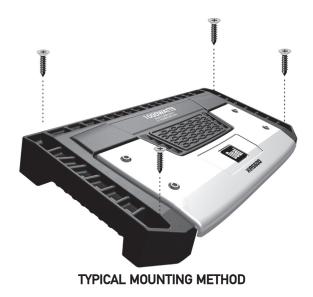
Please read entire manual before installation. Due to the technical nature of amplifiers, it is highly recommended that your DUAL amplifier is installed by a professional installer or an authorized dealer.

Before You Start

- Disconnect negative battery terminal. Consult a qualified technician for instructions.
- Avoid installing the amplifier where it would be subject to high temperatures, such as
- from direct sunlight, or where it would be subject to dust, dirt or excessive vibration.Use extreme caution when drilling holes to avoid damaging fuel lines or existing vehicle wiring.
- All amplifier installations require power, signal and speaker wires (not included).
- An amplifier installation kit (sold separately) is highly recommended to facilitate the installation. Consult your dealer for recommendations.

Mounting Location

- Choose a mounting location for the amplifier. Suggested locations include under a seat or in the trunk.
- The amplifier can be mounted horizontal (recommended) or vertical. For optimum performance, make sure to provide at least 1" of space to around all sides. Do not mount the amplifier under carpets or where airflow is restricted.
- Do not install the amplifier where it may be exposed to moisture.
- The optimum mounting location varies between vehicles. Remember to test all amplifier functions before completing the final mounting procedure.



XIA5600 INSTALLATION



Connection Descriptions

NOTE: Be sure to follow specific instructions included with your amplifier installation kit (not included with this amplifier). The information below should be used a general guideline only.

Power Wire (+12V)

- Disconnect negative battery terminal before proceeding. Consult a qualified technician for instructions if you are unsure.
- Plan wire routing before cutting any wires to length. Begin by routing the power +12V wire from the battery to the amplifier location. Use a grommet when running wires through the firewall or metal openings. Avoid running the power wire near existing vehicle wiring to prevent induced noise from entering the audio system.
- Use extreme caution when drilling holes to avoid damaging fuel lines or existing vehicle wiring.
- The +12V wire MUST be fused within 18" of the battery for protection of the vehicle's electrical system.

Ground Wire (GND)

• The amplifier ground wire should be as short as possible. Choose a clean unpainted section of metal or the vehicle chassis when attaching the ground connection. Be sure to clean the area of any dirt or grease.

Remote Turn-on Wire (REM)

• The remote turn-on wire connects to the head unit's amplifier turn-on lead or power antenna output.

Speaker Wires

- Choose adequate gauge speaker wire depending on your exact amplifier/speaker combination. Be sure to observe polarity when connecting.
- Do not ground any speaker wires or connect any speaker wires together.

Illuminite Circuit (12VDC Output - for DUAL illuminite speakers only)

- Use 18-gauge or larger wire for making the connections to the illuminite terminals of DUAL illuminite speakers ONLY. Be sure to observe polarity when connecting.
- Do not ground any illuminite output wires or connect any illuminite wires together.

Input Signal

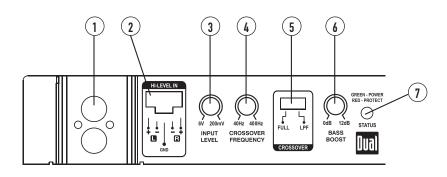
- The amplifier's input signal connects to the head unit's low level (RCA) or high level (speaker wire) outputs.
- Low level input signal deliver the best performance. If unavailable, use the high level inputs when interfacing with factory head unit for instance.

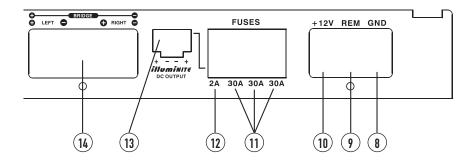
CAUTION

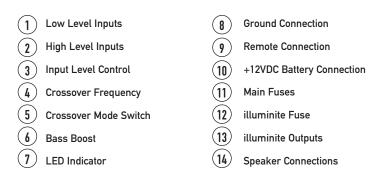
• Do not use both low and high level inputs at the same time - connect only one or the other.



Connections and Controls

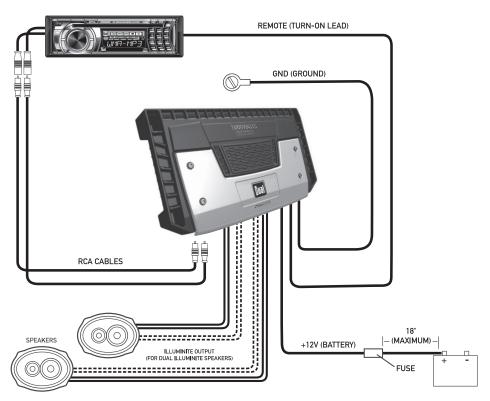








Typical Wire Routing



Main Power Connections

Connect +12V, GND and REM wires accordingly. A suitable fuse MUST be installed on the +12V lead within 18" of the battery for protection of the vehicle's electrical system.

Fuse Rating

When replacing fuses, make sure new fuse is the correct type and amperage. Using an incorrect fuse could damage the amplifier.

Main fuse 30 amp ATO x 3 illuminite fuse 2 amp ATO x 1

Power/Ground Wire Size

For optimum performance, use only the wire size listed below or larger. Make sure to use the same size power and ground wire.

Power/ground 4 gauge illuminite output 18 gauge

XIA5600 INSTALLATION

illumiNIT€[™] Output Connections

The lighting elements of DUAL illuminite speakers provide you with a unique custom touch to your vehicle. Dual's patent pending illuminite LED system and control circuitry provides an extraordinary blue-hue illumination which allows great creative opportunities for the beginner and seasoned custom installer alike. DUAL XIA-series amplifiers provide a dedicated switched 12VDC output including independent fused protection (2 amp) specifically for use with illuminite speakers.

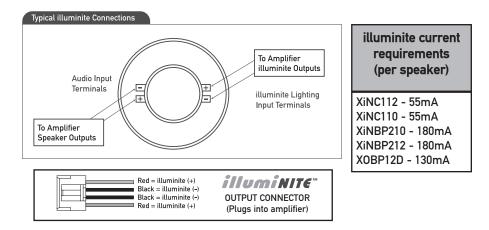
DUAL illuminite speakers have two distinct sets of input terminals. The first is labeled audio input terminals and the second is labeled illuminite lighting inputs. The inputs are clearly marked with a label positioned directly above the terminal housing. The polarity (+ and -) indicators for each set of inputs also appear on these labels.

1. Do not connect the amplifier speaker outputs or any audio source to the illuminite lighting inputs.

2. Refer to the figures below for making the connections. Make sure to observe polarity as the illuminite circuitry will not operate when connected reverse polarity. Connect either red wire from the XIA amplifier illuminite outputs to the positive (+) illuminite input terminal and connect either black wire from the XIA amplifier illuminite outputs to the negative (-) illuminite input.

Additional illuminite wiring notes:

Several illuminite speakers can be connected to the 12VDC illuminite output at one time. Refer to the table below for the individual illuminite speaker current requirements. If you are unsure, consult a qualified professional or call DUAL technical assistance at 1-866-382-5476 for further information.



XIA5600 INSTALLATION

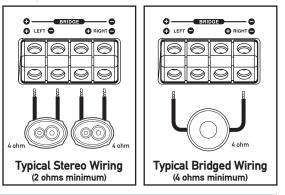


Amplifier Connections

Speaker Connections

Connect speaker wires observing polarity. The minimum impedance load is 2 ohms stereo and 4 ohms bridged. Use of loads lower than these is not recommended and may cause amplifier damage. The XIA5600 can be wired for stereo, bridged or stereo/bridged simultaneous operation. 2 Speakers (stereo)

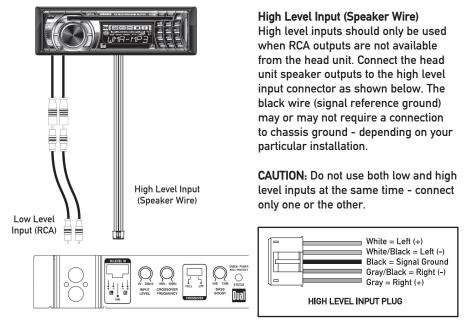
Subwoofer (mono)



Input Signal Connections

Low Level Input (RCA)

Low level (RCA) input signal is preferred for best performance. Typical trunk-mount amplifier installations require a 17-20 foot RCA cable. Most trucks and under-seat applications require a 6-9 foot RCA cable. Using twisted pair construction RCA cables will minimize noise.



Configuration/Setup

Input level Control	The input level control (gain) is used to obtain the best possible match between the head unit audio output and the amplifier input. Begin by turning the input level control fully counterclockwise. Next, turn up the head unit volume control around 3/4 of the way up. Adjust the input level control clockwise until audible distortion is heard, then slightly counterclockwise to provide the best match.
Crossover Mode	The crossover is used to filter out frequencies above or below a certain point. Choose LPF when using the amplifier with subwoofers and FULL when using with coaxial-type speakers.
	NOTE: Choose FULL when using the amplifier in stereo/bridged simultaneous mode. In this mode, passive crossovers are required. Failure to use the correct passive components may damage the amplifier and/or speakers. Consult a qualified professional for recommendations.
Crossover Frequency Control	This control allows precise adjustment of the crossover frequency.
Bass Boost	This control provides additional boost @ 45Hz when used with subwoofers. Adjust this control with caution - as improper use can damage speakers!
LED Indicator	The LED indicator illuminates green during normal operation (POWER) and red when the amplifier detects a fault (PROTECT) .

Limited One Year Warranty

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

Dual Electronics Corp. warrants this product to the original purchaser to be free from defects in material and workmanship for a period of one year from the date of the original purchase.

Dual Electronics Corp. agrees, at our option, during the warranty period, to repair any defect in material or workmanship or to furnish an equal new, renewed or comparable product (whichever is deemed necessary) in exchange without charges, subject to verification of the defect or malfunction and proof of the date of purchase. Subsequent replacement products are warranted for the balance of the original warranty period.

Who is covered? This warranty is extended to the original retail purchaser for products purchased and used in the U.S.A.

What is covered? This warranty covers all defects in material and workmanship in this product. The following are not covered: installation/removal costs, damage resulting from accident, misuse, abuse, neglect, product modification, improper installation, incorrect line voltage, unauthorized repair or failure to follow instructions supplied with the product, or damage occurring during return shipment of the product.

What to do?

- Before you call for service, check the troubleshooting guide in your owner's manual. A slight adjustment of any custom controls may save you a service call.
- If you require service during the warranty period, you must carefully pack the product (preferably in the original package) and ship it by prepaid transportation with a copy of the original receipt from the retailer to an authorized service center.
- Please describe your problem in writing and include your name, a return UPS shipping address (P.O. Box not acceptable), and a daytime phone number with your shipment.
- 4. For more information and for the location of the nearest authorized service center please contact us by one of the following methods:
 - Call us toll-free at 1-866-382-5476
 - E-mail us at cs@dualav.com

Exclusion of Certain Damages: This warranty is exclusive and in lieu of any and all other warranties, expressed or implied, including without limitation the implied warranties of merchantability and fitness for a particular purpose and any obligation, liability, right, claim or remedy in contract or tort, whether or not arising from the company's negligence, actual or imputed. No person or representative is authorized to assume for the company any other liability in connection with the sale of this product. In no event shall the company be liable for indirect, incidental or consequential damages.



Specifications



CEA-2006 Power Standard Specifications (reference: 14.4VDC +/-0.2V, 20Hz~20kHz)

Power Output: 200 Watts RMS x 2 channels at 4 ohms and \leq 1% THD+N Signal to noise ratio: 74dBA (reference: 1 watt into 4 ohms) Additional power output:

250 Watts RMS x 2 channels at 2 ohms and \leq 1% THD+N 500 Watts RMS x 1 channel at 4 ohms (bridged) and \leq 1% THD+N Dynamic power: 1000 Watts at 4 ohms (bridged)

Speaker output impedance: 2~8 ohms (stereo), 4~8 ohms (bridged) illuminite output voltage: 12VDC illuminite output current: 2 amp Low level input range: 200mV~6V (10k ohms) High level input range: 2V~10V (100 ohms) Bass boost: 0~12dB @ 45Hz Crossover range: 40~400Hz Crossover range: 40~400Hz Crossover slope: 24dB/octave Power supply: 11-16 VDC, negative ground Fuses: 30 amp ATO x 3, 2 amp ATO x 1 Amplifier dimensions: 18.5" x 2.36" x 9.96" (WxHxD) (470 x 60 x 263 mm)

Typical installation dimensions: 19.5" x 3.5" x 11" (WxHxD) (495 x 89 x 279 mm)

XIA5600 OPERATION

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Troubleshooting

Problem	Cause	Action
Unit will not turn on (no power LED indicator)	+12V wire not connected or incorrect voltage REM wire not connected or incorrect voltage	Check connections for proper voltage (11~16VDC)
	GND wire not connected	Check connection to ground
	Fuse(s) blown	Replace fuse(s)
Unit has power - LED is green (but no sound)	Speaker wires not connected	Check connections at speakers
	Volume turned all the way down	Increase volume level at head unit
	One or more speaker wires touching each other or touching chassis ground	Insulate all bare speaker wires from each other and chassis ground
	Speaker(s) defective or damaged	Check/replace speaker(s)
	Input signal not connected	Check high or low level inputs for proper connection
Unit blows fuse(s)	Incorrect fuse rating	Use fuse(s) with correct rating
	+12V wire touching chassis ground	Check for pinched wire
	Speaker(s) defective or damaged	Check/replace speaker(s)
Engine noise	Bad ground connection	Make sure amplifier is grounded to clean bare metal
	Signal ground loop or RFI (radio frequency interference)	Re-route RCA cables from existing high current wiring
LED illuminates red (protect mode)	One or more speaker wires touching each other or touching chassis ground	Insulate all bare speaker wires from each other and chassis ground
	Speaker(s) defective or damaged internally (shorted)	Check/replace speaker(s)
	Speaker load less than 2 ohms (stereo) Speaker load less than 4 ohms (bridged)	Adjust speaker load - amplifier will not operate at less than 4 ohms when bridged
Distorted audio output	Incorrect input signal type or input level too high	Check connections and reduce/adjust input level
Low audio output	Incorrect input signal type or input level too low	Check connections and increase/ adjust input level
Weak bass	Speaker(s) are wired out of phase	Check (+) and (-) speaker connections (Observe correct polarity)
No illuminite output (no lights)	Fuse blown - illuminite output (+12VDC) wire touching ground	Check or replace fuse Use 2 amp ATO fuse only
	illuminite (+) or (-) wires not connected	Check connections at speakers
	illuminite connections wired wrong (reverse polarity)	Reverse (+) and (-) connections (Observe correct polarity)
	illuminite speaker(s) defective or damaged	Check/replace speaker(s)



Dual Electronics Corp. Toll Free: 1-866-382-5476

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