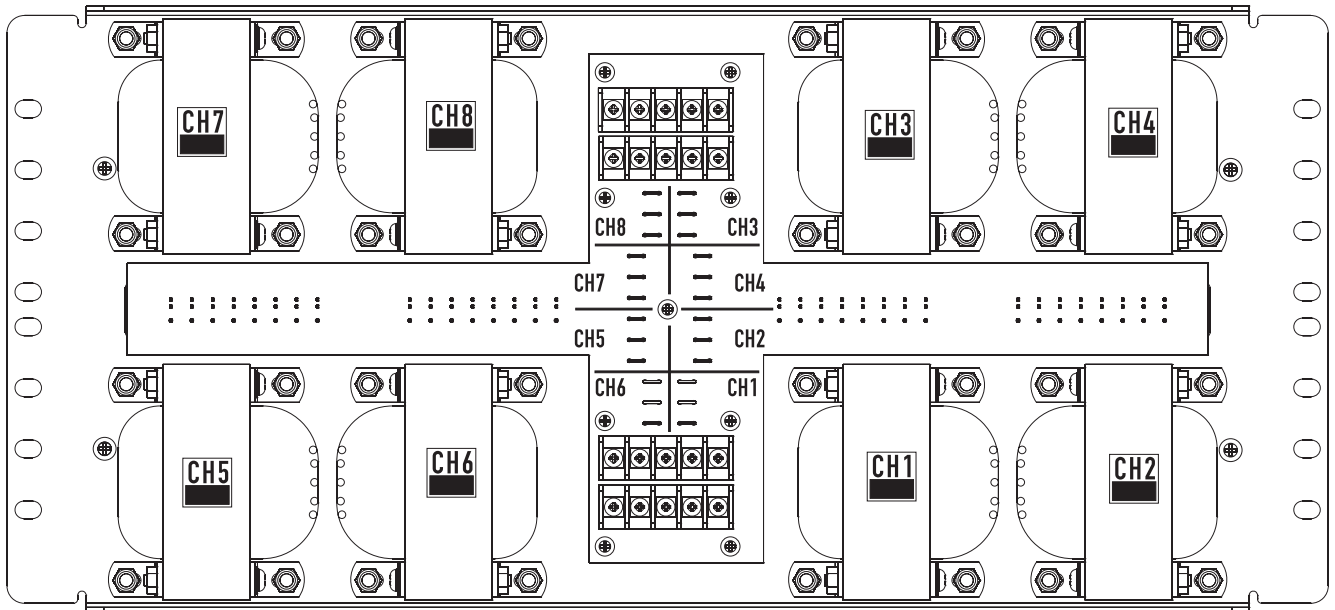
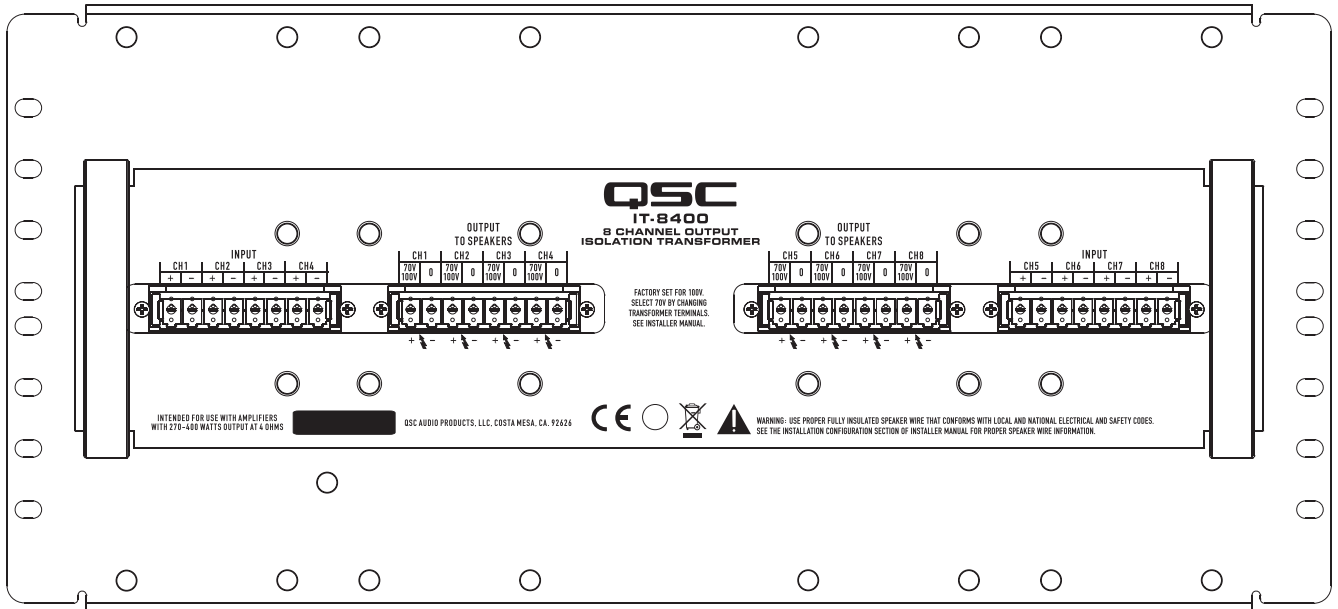


IT-8400

Installation Guide



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TD-000293-00-A



Warranty (USA only; other countries, see your dealer or distributor)

Disclaimer

QSC Audio Products, LLC is not liable for any damage to amplifiers or any other equipment that is caused by negligence or improper installation and/or use of this loudspeaker product.

QSC Audio Products 3-Year Limited Warranty

QSC Audio Products, LLC ("QSC") guarantees its products to be free from defective material and/or workmanship and will replace defective parts and repair malfunctioning products under this warranty when the defect occurs under normal installation and use-provided the unit is returned to our factory, one of our authorized service stations or an authorized QSC International Distributor via pre-paid transportation with a copy of proof of purchase (i.e., sales receipt). This warranty provides that the examination of the return product must indicate, in our judgment, a manufacturing defect. This warranty does not extend to any product which has been subjected to misuse, neglect, accident, improper installation, or where the date code has been removed or defaced. QSC shall not be liable for incidental and/or consequential damages. This warranty gives you specific legal rights. This limited warranty is freely transferable during the term of the warranty period. The warranty on QSC products is NOT VALID if the products have been purchased from an unauthorized dealer/online e-tailer, or if the original factory serial number has been removed, defaced, or replaced in any way. Damage to, or loss of any software or data residing on the product is not covered. When providing repair or replacement service, QSC will use reasonable efforts to reinstall the product's original software configuration and subsequent update releases, but will not provide any recovery or transfer of software or data contained on the serviced unit not originally included in the product.

Customers may have additional rights, which vary from state to state or from country to country. In the event that a provision of this limited warranty is void, prohibited or superseded by local laws, the remaining provisions shall remain in effect.

Periodically, this warranty is updated. To obtain the most recent version of QSC's warranty statement, please visit www.qscaudio.com.

Contact us at 800-854-4079 or visit our website at www.qscaudio.com.

The QSC limited warranty is valid for a period of three (3) years from date of purchase in the United States and many (but not all) other countries.

For QSC warranty information in countries other than the United States, contact your authorized QSC international distributor. A list of QSC International distributors is available at www.qscaudio.com.

To register your QSC product online, go to www.qscaudio.com and select "Product Registration". Other questions regarding this warranty can be answered by calling, e-mailing or contacting your authorized QSC distributor.

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Introduction

The IT-8400 is an output isolation transformer accessory for QSC CX302 amplifiers, allowing up to four amps to drive up to eight 25, 70, and 100 volt distributed lines. It can be mounted in the same rack as the amplifiers.

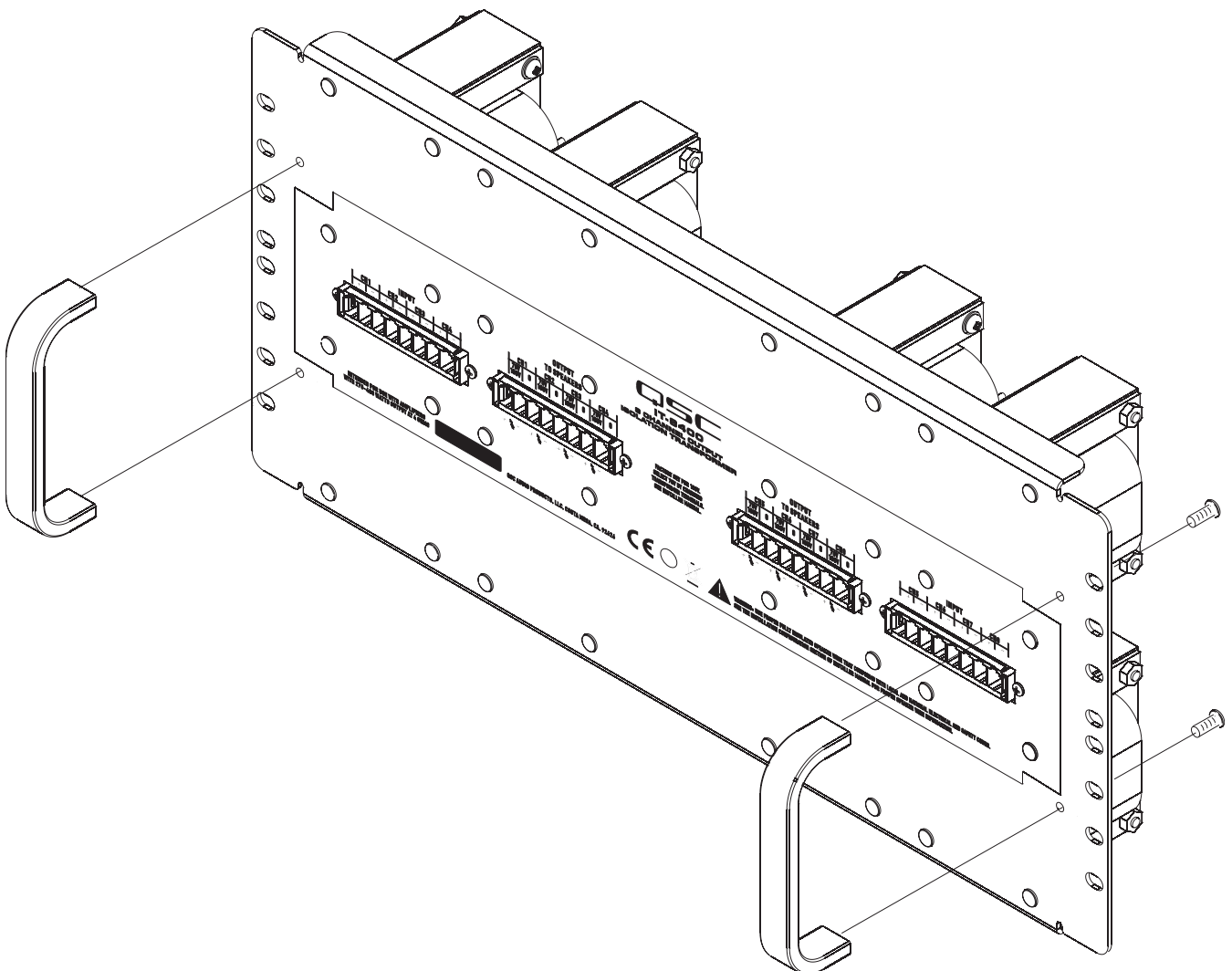
Installation

Remove the bags containing the plugs, handles, and handle mounting screws from the carton and set them aside. Remove the IT-8400 from the shipping carton by grabbing the accessory by the extreme ends, and carefully lifting it straight up out of the carton. Place the unit on the floor alongside the carton and remove the four screws and spacers holding the wood shipping cradle to back of the accessory. Be sure to properly recycle the carton and the packing materials.

Handles

Install the optional handles to the front of the panel using the screws provided.

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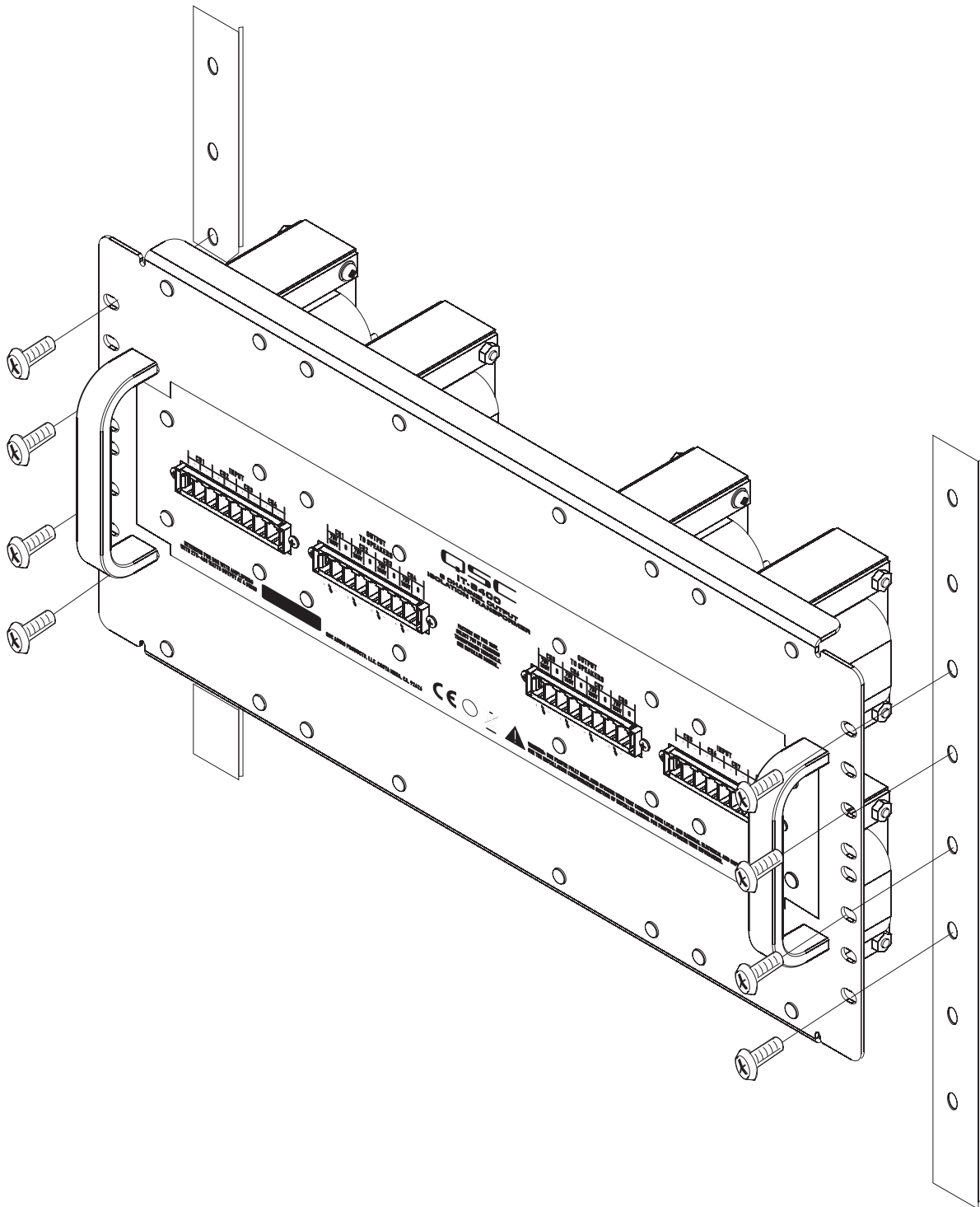
Rack Mounting

The IT-8400 includes several mounting holes for installation into any standard 19" rack. Install the IT-8400 in the rack with at least two screws (not provided) on each side of the panel. The panel includes additional holes to allow it to be mounted at half-rack-space intervals to allow for wire routing between components. If the rack has rear rails, you may find it more convenient to install the accessory behind the amplifiers to simplify wire routing.

If you are using more than one IT-8400 in the same rack, separate them by at least one rack space to minimize crosstalk.



CAUTION: Turn off the amplifiers before wiring up the accessory.



Configuration

Each channel of the IT-8400 is factory set to the 100 volt configuration. To change the configuration for any channel, access the wire connections on the back side of the panel. Make changes to the wiring configuration before installing the accessory into the rack.

The center section of printed circuit board contains text that identifies the channel numbers and terminal voltages alongside the associated wire connection points. Use these as a guide to wire configuration. Also refer to the figures below.

100 VOLT LINE

- Connect the blue wire to the terminal marked 0V.
- Connect the yellow wire to the terminal marked 70/100V.
- Connect the orange wire to the terminal marked NOT USED.

70 VOLT LINE

- Connect the blue wire to the terminal marked 0V.
- Connect the orange wire to the terminal marked 70/100V.
- Connect the yellow wire to the terminal marked NOT USED.

25 VOLT LINE

- Connect the orange wire to the terminal marked 0V.
- Connect the yellow wire to the terminal marked 70/100V.
- Connect the blue wire to the terminal marked NOT USED.

Amplifier settings: To minimize transformer saturation, use the amplifier's 75 Hz input filters. We also recommend using the clip limiters in most applications. See the CX302 user's manual for instructions on configuring filters and clip limiters.

	TABS	100V	70V	25V		25V	70V	100V	TABS	
CH8	0V	B	B	O	Y	O	Y	B	70V/100V	CH3
NOT USED		O	Y	B	B	Y	O	B	NOT USED	
70V/100V		Y	O	Y	O	B	B	B	0V	
CH7	0V	B	B	O	Y	O	Y	B	70V/100V	CH4
NOT USED		O	Y	B	B	Y	O	B	NOT USED	
70V/100V		Y	O	Y	O	B	B	B	0V	
CH5	0V	B	B	O	Y	O	Y	B	70V/100V	CH2
NOT USED		O	Y	B	B	Y	O	B	NOT USED	
70V/100V		Y	O	Y	O	B	B	B	0V	
CH6	0V	B	B	O	Y	O	Y	B	70V/100V	CH1
NOT USED		O	Y	B	B	Y	O	B	NOT USED	
70V/100V		Y	O	Y	O	B	B	B	0V	
CH6	0V	B	B	O	Y	O	Y	B	70V/100V	CH1

B = Blue O = Orange Y = Yellow

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Connecting the amplifier to the IT-8400 accessory

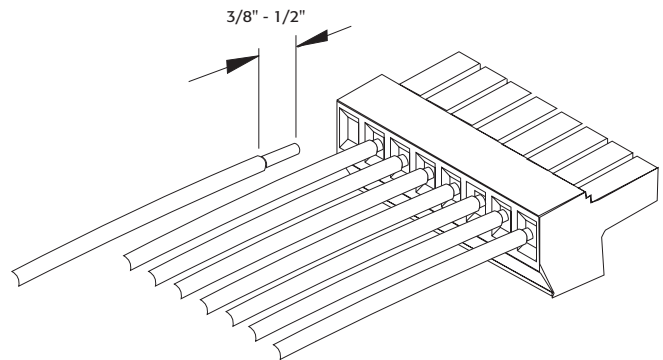
Turn off the amplifier before opening the safety shroud over the output barrier strip or making any changes to the output connections. Always close the safety shroud when you finish working on the output connections and before turning the amplifier on. Use fully insulated wiring that conforms with local and national electrical and safety codes. Class 2 wiring for this application is specified by the 1999 National Electrical Code, which is prevalent in the United States. Codes in your location may vary.

Four terminal block plugs are provided with the IT-8400. These plugs are made to accept wire sizes from 24 AWG (0.2 mm²) to 10 AWG (6 mm²).

! Note: Use wiring suitable for a Class 2 circuit.

Prepare the wires for the terminal block by removing 3/8" to 1/2" (9.5 mm to 12.7 mm) of insulation. To install the wire, loosen the screw on the terminal and push the end of the wire into the rectangular opening. Tighten the screw until the wire is secure in the connector (screw torque should be between 0.7 Nm and 0.8 Nm).

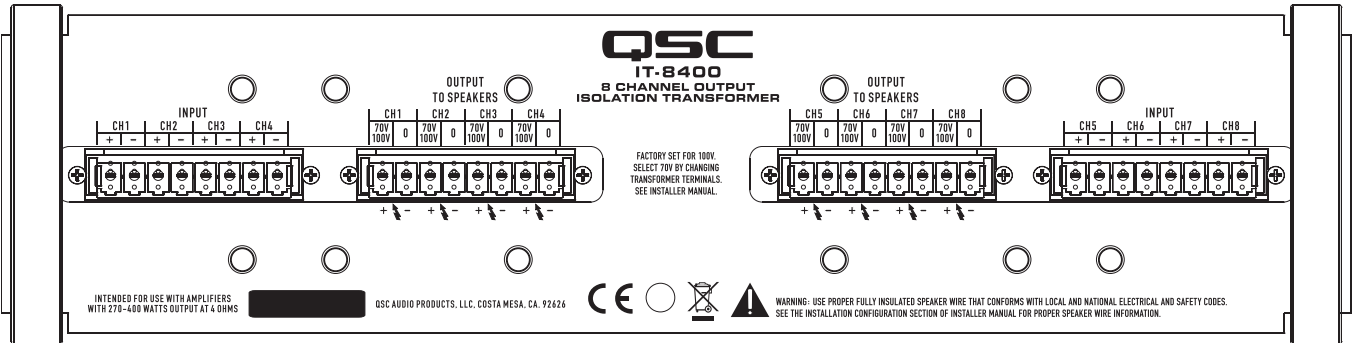
Install the amplifier wiring into the large terminal block plugs provided. The plugs install into the accessory with the terminal screws oriented down. The plugs for the wiring from the amplifiers are installed into the connectors labeled INPUT. Refer to the label on the panel for channel and polarity assignments. Wire the terminal assigned to the channel's positive (+) input to the speaker output labeled positive (+) on the back of the amplifier.



Likewise, wire the plug's negative (-) terminal to the negative (-) connection on the back of the amplifier. Repeat this for the other amplifier and accessory channels.

Connecting the accessory to the distributed audio lines

Use the large terminal block plugs provided. The plugs install into the accessory with the terminal screws oriented down. The plugs for the distributed lines are installed into the connectors labeled **OUTPUT TO SPEAKERS**. Refer to the label on the panel for channel and voltage assignments.

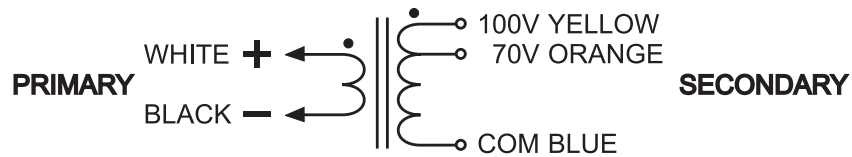


⚠ Note: 25V distribution lines will connect between the terminals marked 0 and 70V/100V. The transformer wiring must be configured for 25V on each channel prior to connection to 25V distribution lines.

Use the large terminal block plugs provided. The plugs install into the accessory with the terminal screws oriented down. The plugs for the distributed lines are installed into the connectors labeled **OUTPUT TO SPEAKERS**. Refer to the label on the panel for channel and voltage assignments

Schematic

EACH TRANSFORMER



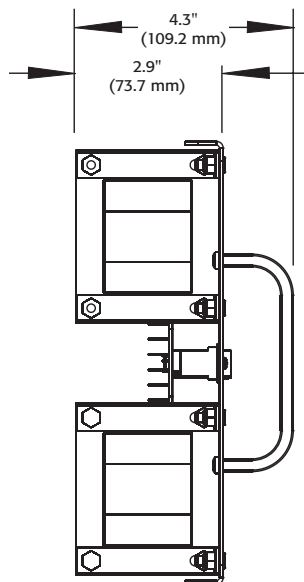
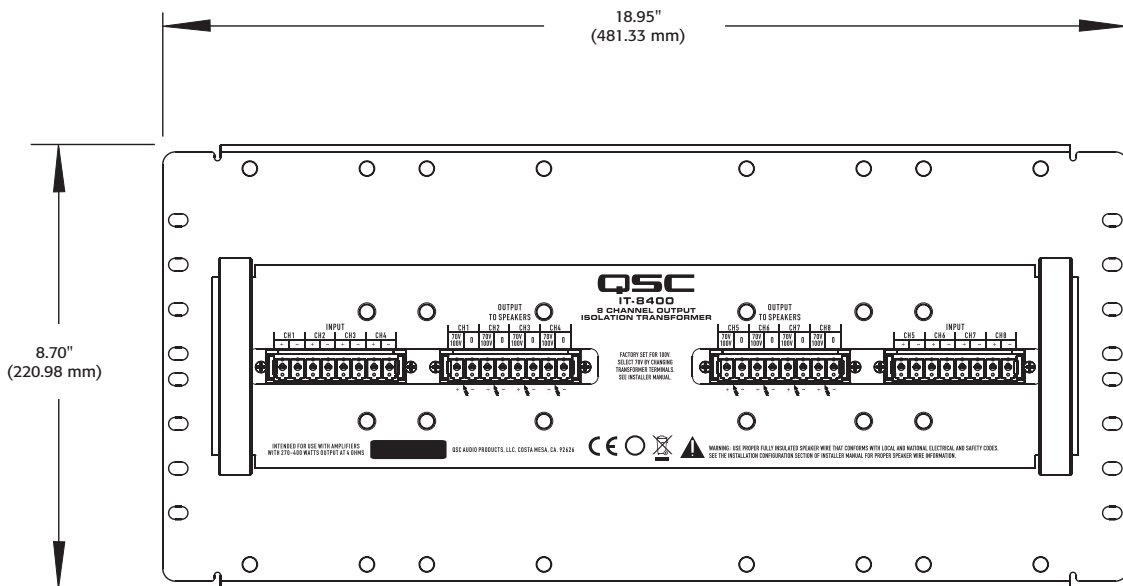
Specifications

IT-8400

Configuration	Fully isolated secondary
Eight Channel	25V, 70V, or 100V lines Up to 400 watts per channel
Frequency Response	75 Hz – 12 kHz + 0, -3 dB, loaded with 12.2 ohms (70V) or 25 ohms (100V) non-inductive load
Output Regulation	< 1 dB at mid-band frequencies, no-load to full-load (3 dB for 25V loads)
Harmonic Distortion	Less than 0.05%, 75 Hz, -3 dB less than 0.5%, 150 Hz-12 kHz at 0 dB
Net Weight	32.5 lb (14.7 kg)
Shipping Weight	40.0 lb (18.1 kg)

Dimensions

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