



Uncle Tommy
Kristy
Mai

installation and operation

Congratulations

You have purchased the finest car audio equipment that today's technology can offer. When used with equipment of equal quality, your system will provide you with the ultimate in sound quality. For trouble free enjoyment, please read this manual in its entirety before installation. Thanks you for purchasing our product.

US Acoustics

Before You begin installation

Before you begin , you will need tools, supplies and adapters. It is best to make sure you have everything you need before you start.

Amplifier Location

Allow air circulation around the amplifier.

The amplifier's compact design allows greater flexibility in mounting. it can be mounted under the seat and in the trunk. When selecting a location, remember that amplifiers generate heat. Select a location where air can circulate around the amplifier.

Do not cover the amplifier with carpets or enclose it behind interior trim panels.

Every installation will be a bit different based upon vehicle design, check all locations and placements carefully before making any cuts or connections.

Disconnect Battery

Before you begin, always disconnect the battery negative terminal.

Important:

If wiring connections are made incorrectly the unit will not operate properly and could be damaged. Follow the installation instructions carefully or have the amplifier installed by an authorized dealer.

Things to remember when installing your amplifiers.

The design philosophy of the amplifiers and mode of regulation requires that proper installation and load impedance instructions be adhered to at all times.

Uncle Tommy minimum impeance is 1ohm stable.

Kristy minimum impedance is 2ohm stereo or 4 ohm bridged.

Mai mininum impeance is 2ohm stereo or 4ohm bridged for CH1-CH4 & CH5 is 2ohm stable.

Uncle Tommy, Kristy and Mai are not equipped with fuses. Please use external fuses for Uncle Tommy, Kristy and Mai amplifiers. External fuse ratings are Uncle Tommy (100A), Kristy (60A) and Mai (70A)

These fuse ratings should be sufficient under normal working conditions. However, if the amplifiers are overloaded (see minimum impedance above) fuses may blow.

Therefore, please try to avoid operating the amplifiers under these conditions.

1. Mount Kristy and Mai amplifiers where air flow is the best.
2. Mount Kristy and Mai amplifiers to a solid surface away from vibration, as these amplifiers are tiny and the vibration can damage the amplifiers.
3. Take extreme caution when mounting Kristy and Mai amplifiers, so as not to damage the chassis with a drill or screwdriver.
4. Run 4 gauge wire from the battery, using fuses with 12" of the positive battery terminal. The fuse is to protect the car and your car audio system from the fire that could be caused by a short circuit.
5. Run 4 gauge ground wire as short as possible, to the closest chassis ground point. Be sure to remove the paint around the chassis ground point to provide a more solid electrical connection.
6. Run a 16 AWG (or larger) wire to the remote turn-on lead of the headunit.
7. Connect the speakers as per wiring diagrams in the manual.
12AWG or larger speaker wire is recommended.

8. Mount remote level control in the car where it can be easily reached from the driver's seat, if desired.
9. Using rca interconnect cables, connect all line inputs per the wiring diagrams which follow.
If possible, keep rca cables away from the 12V power and ground wire.
10. Set the controls as described on following pages.

12V (POWER CONNECTION)

Before mounting amplifiers, disconnect the negative (-) cable from your grounded battery to protect any accidental damage to your awesome amplifiers and audio system.

Uncle Tommy, Kristy and Mai amplifiers are designed to use 4 gauge power and ground connection. Connect the power cables to power terminal + 12V.

Uncle Tommy, Kristy and Mai amplifiers are not equipped with fuses because they do not like to be bossed around. External fuses should be used.

Connect one end of fuse holder to the power cable going into the amplifiers and the other end of fuse holder to positive battery.

This fuse location will protect the system and the vehicle against the possibility of a short circuit in the power cable.

Be sure to use fuses and fuse holder adequate for the application.

REM (REMOTE)

Run a remote turn on cable (at least 16 gauge) from the switched + 12V source .

This may be a toggle switch, a relay, your source unit's remote trigger cables, or power antenna trigger cable. Connect the remote turn on cable to the REM (remote) terminal.

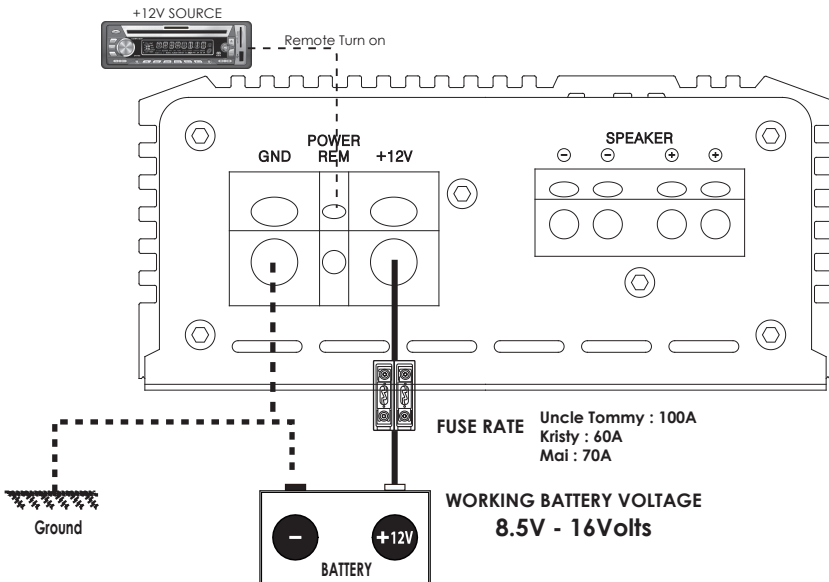
GND (GROUND)

Locate a secure grounding connection as close to amplifier as possible.

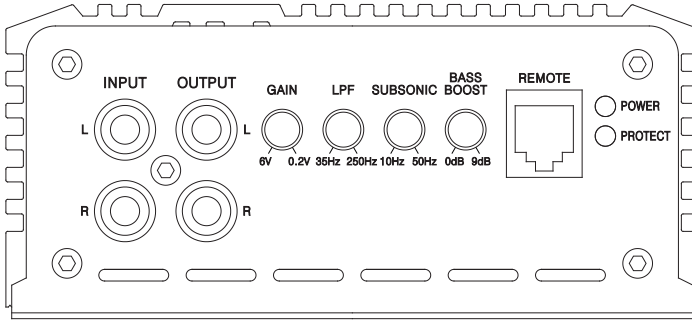
Make sure the location is clean and provides a direct electrical connection to the frame of the vehicle. The ground needs to have as low of a resistance as possible.

Connect one end of a short piece of the same size cable as the power cable to the grounding point or to one of your batteries or battery bank.

Run the other end of 0 gauge cable to the mounting location of the amplifiers for connection to the amplifiers ground terminals and connect the ground cable to the GND (ground terminal).



Uncle Tommy INPUT & OUTPUT CONNECTION



RCA INPUTS

The RCA inputs ensure the highest quality contacts and the lowest noise in your audio system.

RCA OUTPUTS

Output RCA jack to another amplifier.

GAIN (6V - 0.2V)

This adjusts the normal operating level of the amplifier by matching the level from the headunit.

LOW PASS FILTER (35Hz - 250Hz)

Control the low pass filter frequency for the speaker outputs.

SUBSONIC FILTER (10Hz - 50Hz)

Control the high pass frequency for the speaker outputs to eliminate extreme low frequencies

BASS BOOST (0 -9dB)

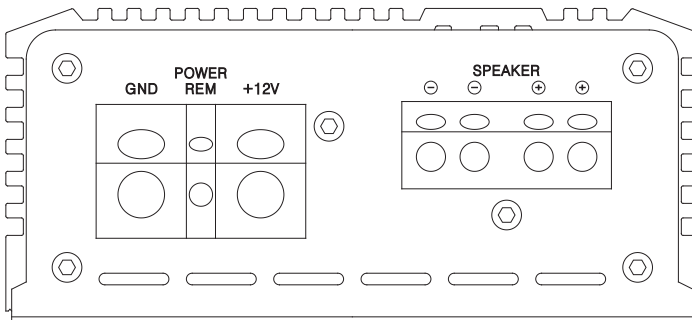
It adjust bass boost from 0dB to 9dB

REMOTE CONTROL

Use this to control level of the amplifier from your driver's seat.

POWER & PROTECT INDICATORS -

When the unit is powered on and operating correctly the power LED illuminates. When the unit is malfunctional or protected, then protect LED is turned on.



GROUND (GND) & POWER (+12V)

The power and ground will accommodate 4 gauge wire. Use high quality pure copper wire only.

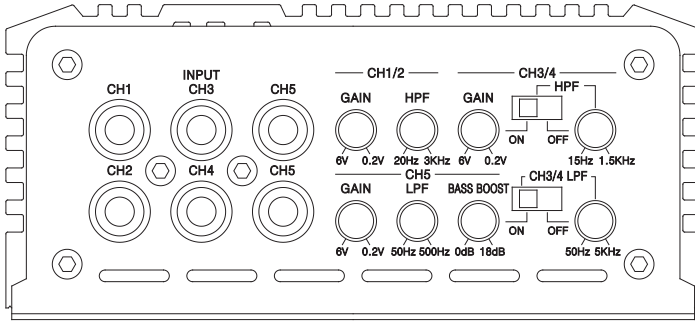
REMOTE (REM)

REM connector will accept wire sizes from 12 to 16 gauge. This terminal is used to remotely turn-on and turn-off the amplifier when +12V DC is applied.

SPEAKER TERMINAL BLOCK

Connect speaker cables from speaker terminal block to speakers. Speakers' impedance should be checked carefully. Minimum impedance is 1ohm for Uncle Tommy.

INPUT & OUTPUT CONNECTION



RCA INPUTS

The RCA inputs ensure the highest quality contacts and the lowest noise in your audio system.

GAIN (6V - 0.2V)

This adjusts the normal operating level of the amplifier by matching the level from the headunit.

HIGH PASS FILTER

Control the high pass filter frequency for the speaker outputs.

BAND PASS FILTER (CH3/4)

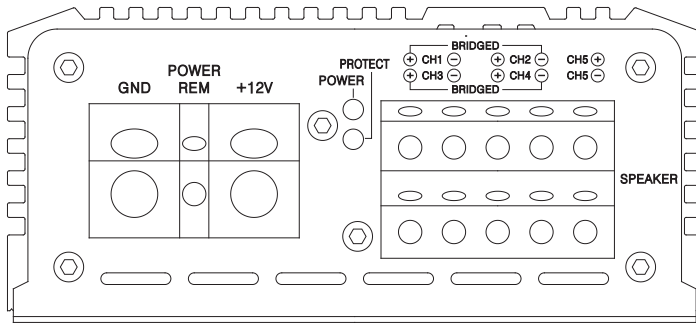
Control band pass filter by adjusting High pass filter and low pass filter range.

LOW PASS FILTER

Control the low pass filter frequency for the speaker outputs.

BASS BOOST (0 - 18dB)

It adjust bass boost from 0dB to 18dB



GROUND (GND) & POWER (+12V)

The power and ground will accommodate 4 gauge wire.

Use high quality pure copper wire only.

REMOTE (REM)

REM connector will accept wire sizes from 12 to 16 gauge.

This terminal is used to remotely turn-on and turn-off the amplifier when +12V DC is applied.

POWER, PROTECT INDICATORS

When the amplifier is powered on and operating correctly POWER LED illuminates.

When amplifier is malfunctional or protected, then PROTECT LED is turned on.

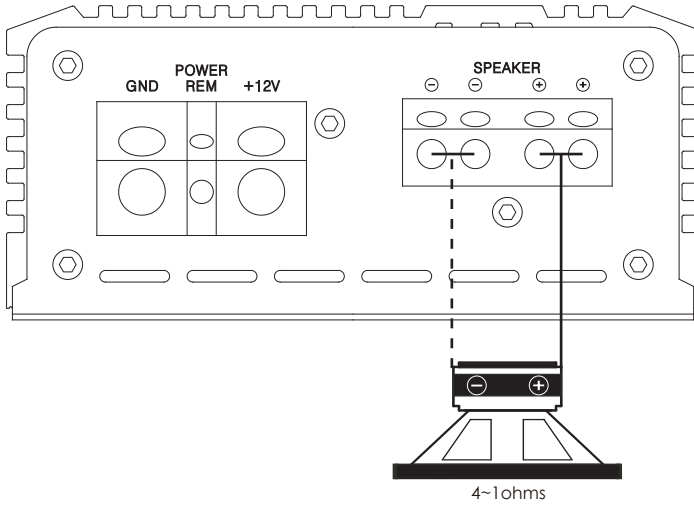
SPEAKER TERMINAL BLOCK

Connect speaker cables from speaker terminal block to speakers.

Speakers' impedance should be checked carefully. Minimum impedance is 2ohm stereo.

Uncle Tommy SPEAKER CONNECTION

1 CHANNEL SPEAKER MODE

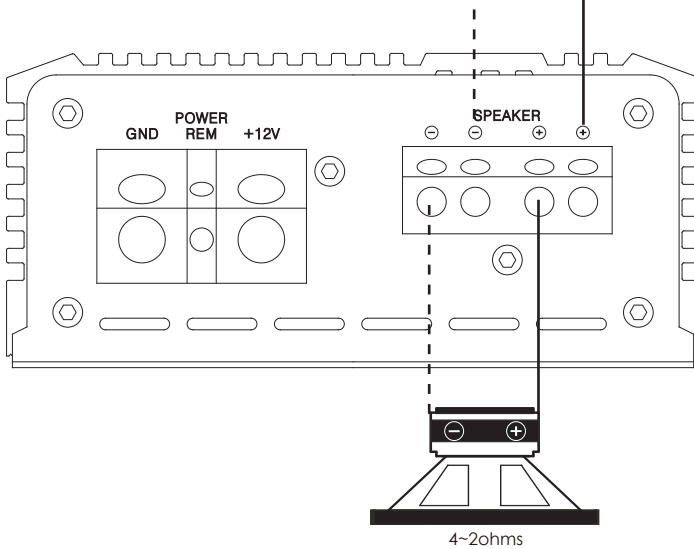


! Important:

Uncle Tommy working impedance
1ohm stable.

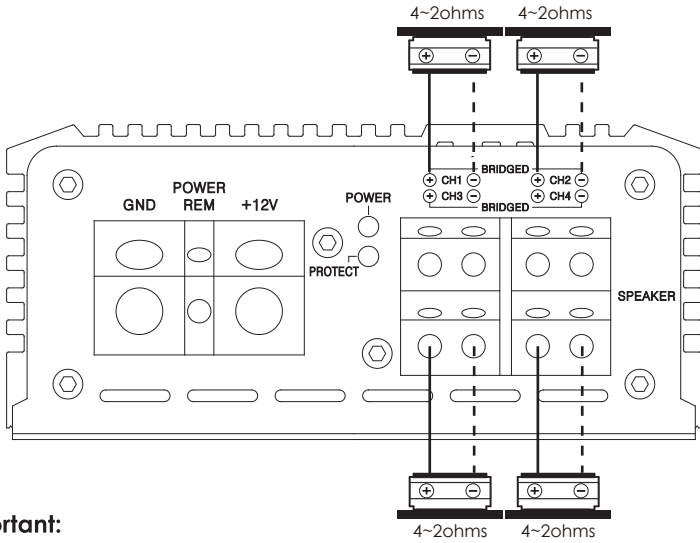
4~2ohms

2 CHANNEL SPEAKER MODE



Kristy SPEAKER CONNECTION

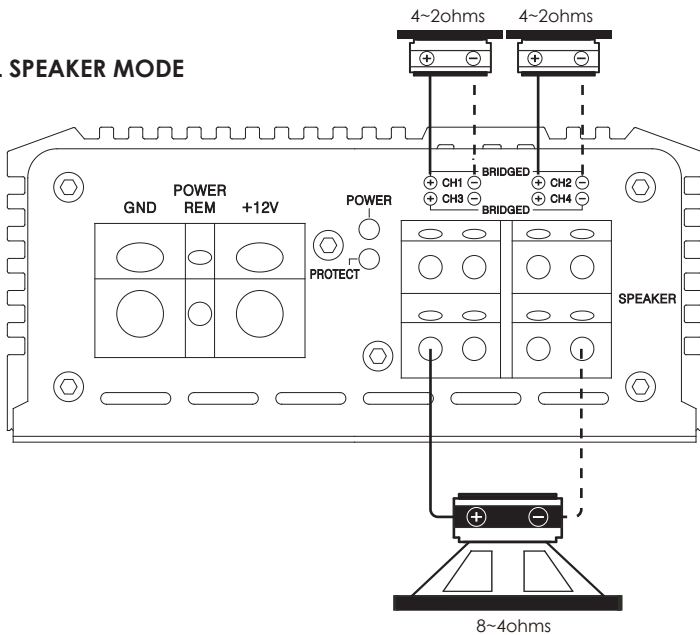
4 CHANNEL SPEAKER MODE



! Important:

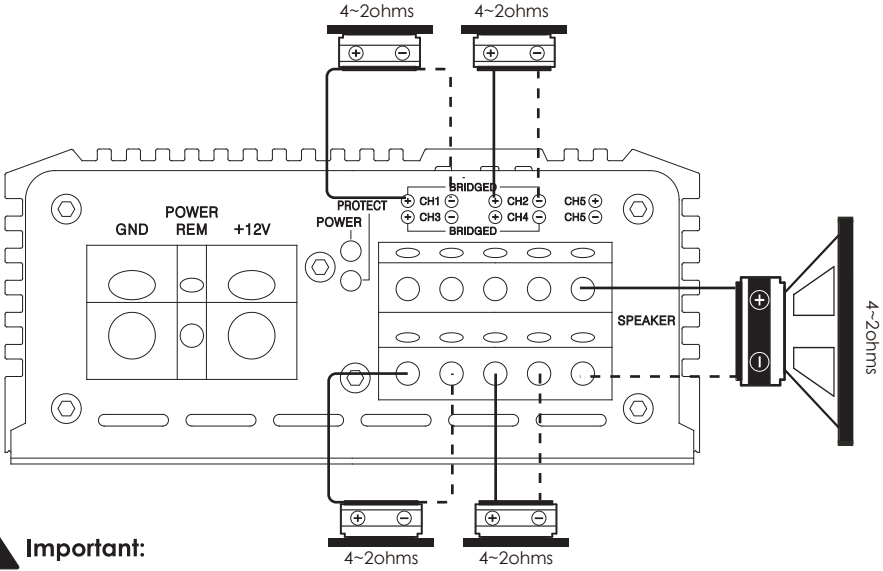
**Kristy working impedance
2ohm stereo or 4ohm bridged.**

3 CHANNEL SPEAKER MODE



Mai SPEAKER CONNECTION

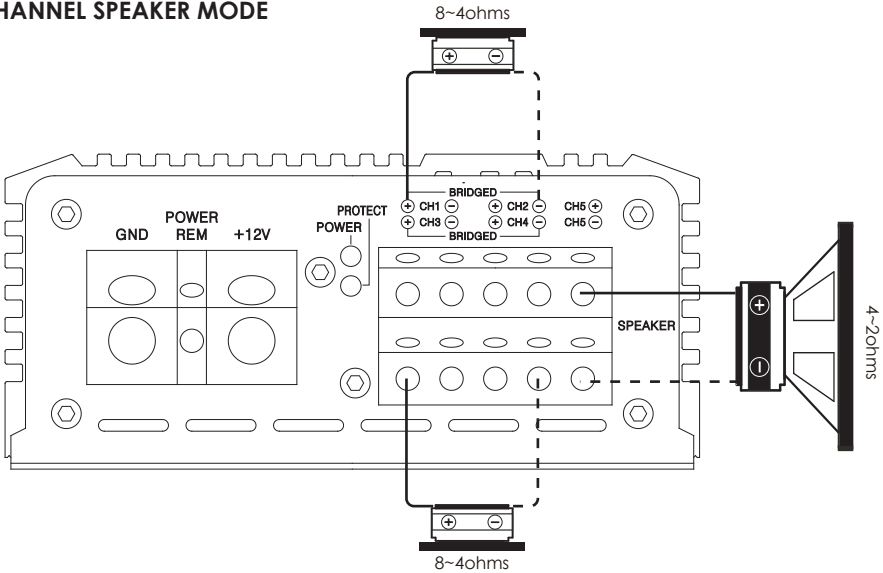
5 CHANNEL SPEAKER MODE



! Important:

Mai working impedance
CH1/4 : 2ohm stereo or 4ohm bridged.
CH5 : 2ohm mono

3 CHANNEL SPEAKER MODE



TROUBLE SHOOTING

NO SOUND (NO OUTPUT)

- @ Please check all connections, cables' routing, short & voltage
- @ Please check the fuses , If they are blown, please replace with new one.
- @ Please check whether speakers work well, you can test speakers by connecting to another amplifier

PROTECTION

- @ Please check overload, overheat (thermal), short and voltage, DC offset.
- @ Uncle Tommy working impedance is 1 ohm
Kristy minimum working impedance is 2 ohm stereo or 4ohm bridged.
Mai minimum working impedance is 2 ohm stereo or 4ohm bridged for CH1-4 and 2ohm mono for CH5.
- @ If amplifier is shut down due to heat, they will be on some minutes later after cooling down.
Please make better airflow and no obstruction around amplifiers for thermal protection
- @ Uncle Tommy, Kostry & Mai working voltage is 9V ~ 16V.
- @ When over 4V DC comes into amplifiers, then, they will be DC protected.
Check whether amplifiers work after removing RCA-Input.
If amplifiers work, then check DC by checking RCA-input .
When DC is over 4V at input, try by replacing +12V source unit .

DISTORTION & NOISE

- @ Readjust input level and check the speaker quality at another amplifier
Replace poor quality speakers with good quality ones
- @ Check amplifiers and headunit's ground contact. All grounds should be common.
- @ Check Rca Jack, then replace with new one or reroute Rca Jack.
- @ Engine noise is caused by poor grounding of amplifiers, headunit, other components, battery or alternator, so please check all grounding connection.

POOR BASS RESPONSE

- @ Please check speaker cables and reverse polarity.

SPECIFICATION

Features	Uncle Tommy	Kristy	Mai
Power at 4ohms	500W x 1ch	100W x 4ch	50W x 4ch + 300W x 1
Power at 2ohms	800W x 1ch	165W x 4ch	80W x 4ch + 430W x 1
Power at 1ohms	1000W x 1ch		
Power at 4ohms bridged		330W x 2ch	160W x 2ch + 300W x 1
Frequency Response	10Hz - 247Hz	10Hz - 23KHz	10Hz - 22KHz
Signal to Noise Ratio	94dB <	91dB <	96dB <
Damping Factor	150dB <	100dB <	100dB <
Input Sensitivity	6V - 0.2V	6V - 0.2V	6V - 0.2V
Subsonic Filter	10Hz - 50Hz		
High Pass Filter		20Hz - 8KHz	20Hz - 3KHz for CH1/2 15Hz - 1.5KHz for CH3/4
Low Pass Filter	35Hz - 250Hz	50Hz - 8KHz	50Hz - 5KHz for CH3/4 50Hz - 500Hz for CH5
Bass Boost	0 - 9dB		0 - 18dB for Ch5
Remote Control	Included		
Speaker impedance	1 - 8 ohms	2 - 8 ohms	2 - 8 ohms
Working Voltage	9V - 16V	9V - 16V	9V - 16V
Fuse Rate	100A (External)	60A (External)	70A (External)
Tested Voltage & THD	14.4V & < 1% THD	14.4V & < 1% THD	14.4V & < 1% THD
Dimensions (L x W x H inches)	8.26 x 4.68 x 2.04	8.26 x 4.68 x 2.04	11.41 x 4.68 x 2.04

* Specifications are subject to change as advances and development continue.

Warranty

One(1) year Limited Warranty

What is Covered

This warranty applies only to US Acoustics products sold to consumers by Authorized US Acoustics Dealers in the United States of America or its possessions.

Product purchased by consumers from an Authorized US Acoustics Dealer in another country are covered only by that country's Distributor and not by US Acoustics.

Who is Covered

This warranty covers only the original purchaser of US Acoustics product purchased from an Authorized US Acoustics Dealer in the United States.

To receive service, the purchaser must provide US Acoustics with a copy of the receipt stating the customer's name, dealer name, product purchased and date of purchase.

Products found to be defective during the warranty period will be repaired or replaced (with a product deemed to be equivalent) at US Acoustics 's discretion.

What is Not Covered

1. Damage caused by accident, abuse, improper operations, water, theft, shipping.
2. Any cost or expense related to the removal or reinstallation of product.
3. Service performed by anyone other than US Acoustics or an Authorized US Acoustics Service Center.
4. Any product which has had the serial number defaced, altered, or removed.
5. Subsequent damage to other components.
6. Any product purchased outside the U.S.
7. Any product not purchased from an Authorized US Acoustics Dealer.

Limit on Implied Warranties

Any implied warranties including warranties of fitness for use and merchantability are limited in duration to the period of the express warranty set forth above.

Some states do not allow limitations on the length of an implied warranty, so this limitation may not apply. No person is authorized to assume for US Acoustics any other liability in connection with the sale of the product.

How to Obtain Service

Contact the Authorized US Acoustics Dealer you purchased this product from.

If you need further assistance, contact us at usacousticsca.com for US Acoustics Service.

You must obtain an RA# (Return Authorization number) to return any product to US Acoustics.

You are responsible for shipment of product to US Acoustics.

US/Acoustics