

INPUT SENSITIVITY ADJUSTMENT

The 2200ix offers five (5) input gain settings. The adjustment runs in 10 dB steps from -20 dB to +20 dB. This wide range of adjustment allows the 2200ix to accept input voltages from 100 mV to 17 V. Adjustment is made by installing a jumper across the associated input voltage/pin location. Refer to the illustration on the reverse side of this document prior to setting the input sensitivity.

CROSSOVER MODES OF OPERATION

The 2200ix is equipped with two (2) crossover mode jumpers. The four (4) position header jumper controls the crossover function as it applies to the 2200ix's amplifier. The modes of operation are: Position 1 = Bypass (Full Range), Position 2 = High Pass, Position 3 = Low Pass, and Position 4 = Band Pass. (See illustration)

The three (3) position jumper controls the crossover function as it applies to the RCA Line Outputs. The modes of operation are: Position 1 = Bypass (Full Range), Position 2 = High Pass, and Position 3 = Low Pass. (See illustration)

The High and Low Pass frequencies are determined by the Frequency Modules (SIPs) installed in the two (2) SIP sockets pictured on the reverse side of this document.

CROSSOVER FREQUENCY MODULES

The following is a chart of Xtant's available frequency modules. The frequency module (SIP) "ID Code" printed on the SIP and the associated frequency value is detailed below.

SIP Number	Frequency
2 2 4	5 0 H z
1 3 4	7 0 H z
1 1 4	8 0 H z
1 0 4	9 0 H z
6 8 3	1 2 0 H z
5 6 3	1 5 0 H z
2 7 3	3 0 0 H z
1 5 3	5 0 0 H z
1 0 3	7 0 0 H z
7 5 2	1 k H z
2 4 2	3 k H z
1 8 2	4 k H z
1 5 2	5 k H z

The 2200ix amplifier is shipped from the factory with 90 Hz High Pass and Low Pass frequency modules (SIP) installed. To change a frequency module, simply remove the resistor SIP and replace it with the appropriate SIP value to achieve the desired frequency.

The Low and High Pass frequencies are independent. Any combination of the available frequency modules (SIPs) may be used (ie. 80 Hz Low Pass and 120 Hz High Pass).



INSTALLER'S REFERENCE LOG

• DATE INSTALLED: _____

• OWNERS NAME: _____ PHONE: _____

• ADDRESS: _____

• CITY/ STATE: _____ ZIP: _____

• VEHICLE: _____ YEAR: _____

• XTANT AMPLIFIER: MODEL _____ SERIAL# _____

CROSSOVER SETTINGS:

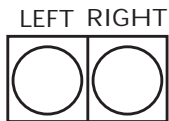
SIP HIGH PASS VALUE CODE: _____

SIP LOW PASS VALUE CODE: _____

INPUT SENSITIVITY JUMPER (CIRCLE SETTING)

-20 dB -10 dB 0 dB +10 dB +20 dB

OUTPUT GAIN ADJUSTMENT (DRAW ARROW POSITION)



ACCESSORY MODULES (CIRCLE YES OR NO)

CM24 X YES NO
NO

SYSTEM COMPONENTS

SOURCE _____ SERIAL # _____

PROCESSOR(S) _____ SERIAL # _____

_____ SERIAL # _____

AMPLIFIER(S) _____ SERIAL # _____

_____ SERIAL # _____

_____ SERIAL # _____

SPECIAL COMPONENTS

_____ SERIAL # _____

_____ SERIAL # _____

JUMPER SETTINGS:

AMPLIFIER: (CIRCLE SETTING)
ALL HIGH LOW BAND PASS

RCA OUTPUTS (CIRCLE SETTING)
ALL HIGH LOW

NOISE GATE ADJUSTMENT



THRESHOLD POSITION

SWITCH: IN DEFEAT (CIRCLE SETTING)

PQM 1 YES

CHIP FREQUENCY _____

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INSTALLER'S REFERENCE

THIS DOCUMENT HAS BEEN CRAFTED TO MAKE INSTALLATION, SYSTEM DESIGN AND TROUBLE-SHOOTING, A QUICK AND EASY PROCESS. THE CHARTS PROVIDED, OFFER A SIMPLE METHOD OF DOCUMENTATION.

IT IS IMPORTANT THAT YOU RETAIN THIS LOG FOR YOUR RECORDS. ON PAGE 12 OF THE OWNER'S MANUAL, YOU WILL FIND THE OWNER'S REFERENCE LOG. ONCE YOU HAVE NOTATED THE FINAL SETTINGS FOR THIS 2200IX, TRANSFER THOSE SETTINGS TO THE OWNER'S REFERENCE LOG. IN THE FUTURE, ANY SYSTEM EXPANSION AND/ OR PROBLEMS MAY BE REFERENCED TO THIS LOG.

INSTALLATION SEQUENCE

• REMOVE AMPLIFIER COVER:
Loosen allen head screws and lift-off cover. Do not remove protective covering on stainless steel lid until installation is complete.

• TEMPORARILY MOUNT AMPLIFIER:
The amplifier is designed to be anchored through the four (4) holes located on the circuit board/base assembly.

• MARK WIRES FOR TERMINATION AND REMOVE 2200ix:
Determine wire lengths for Power, Ground, Remote, & speaker cables. Mark for cutting/termination. Remove the 2200ix before cutting and terminating all wires. CAUTION: stripping wires over the circuit board may cause product failure.

• CROSSOVER SET-UP:
Adjust crossover mode jumpers at your work bench. Also, change crossover frequency SIP's if desired.

• INPUT SENSITIVITY:
Make initial adjustment to input gain at your work bench. To increase input gain, place jumper in the +20 dB position. To decrease input gain, place jumper in the 0, -10, or -20 dB position.

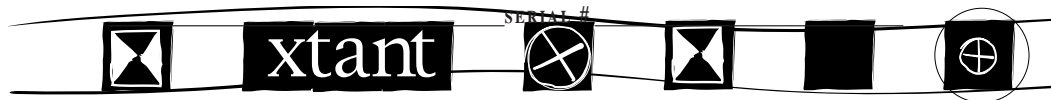
• MOUNT THE AMPLIFIER AND MAKE ALL CONNECTIONS:
Re- install the amplifier and make all wire connections. i.e.: Speaker, Power, Remote, Ground, and RCA input.

• DOUBLE CHECK ALL CONNECTIONS! TURN ON AMPLIFIER.
Check red LED, it should be on.

ADJUST LEFT, RIGHT AMPLIFIER GAINS.

• ADJUST NOISE GATE THRESHOLD (IF USED):
Turn noise gate on and adjust the threshold by turning clockwise to increase sensitivity (gate will open with less input signal). The green LED will illuminate when the gate passes signal.

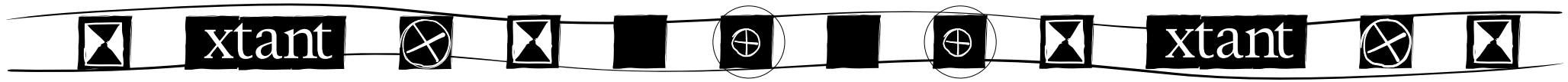
• AFTER FINE TUNING THE SYSTEM:
Remove protective covering from amplifier and clean per the maintenance section on page 9 of the Owner's Manual. Attach cover to base.



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INSTALLERS REFERENCE

XTANT 2200 IX



CROSSOVER FREQUENCY SELECTION:

TO CHANGE THE FREQUENCY OF EITHER THE HIGH AND/OR LOW PASS FILTERS, REMOVE AND REPLACE THE FREQUENCY MODULE (SIP) LOCATED ON THE CIRCUIT BOARD NEXT TO THE CROSSOVER MODE JUMPERS. NOTE THAT THE IDENTITY OF THE HIGH & LOW PASS SOCKETS ARE NOT MARKED ON THE BOARD. REFER TO THIS DRAWING FOR LOCATION & THE CHART ON THE BACK FOR THE AVAILABLE SELECTION OF SIP / FREQUENCY VALUES.

CROSSOVER MODE JUMPERS:

RCA OUTPUTS:

- 3 - Low Pass
- 2 - High Pass
- 1 - BYPASS

AMPLIFIER:

- 4 - BAND PASS
- 3 - Low Pass
- 2 - High Pass
- 1 - BYPASS

