## INPUT SENSITIVITY ADJUSTMENT

Each set of inputs (front/rear) on the 4180x are adjustable in 10 dB steps from -20 dB to + 20 dB The five (5) input gain settings allow the 4180x to accept input voltages from 100 mV to 8 V. The front and rear input sensitivity is adjusted independently 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. (With the installation of a BLM-1, the input sensitivity increases to 100 mv to 17 V.)

## CROSSOVER MODES OF OPERATION

The 4180x is equiped with independent *FRONT* and *REAR* crossovers. Each crossover is controlled by two (2) crossover mode jumpers labeled *AMP & LINE XOVR.* The header jumpers labeled *AMP XOVR* control the crossover function as it applies to the 4180x's Front and Rear amplifiers. The modes of operation are: Position 1 = Bypass (Full Range), Position 2 = High Pass, and Position 3 = Low Pass.

The two (2) header jumpers labeled *LINE XOVR* control the crossover function as it applies to the 4180x's *FRONT* and *REAR* RCA Line Outputs. The modes of operation are: Position 1 = Bypass (Full Range), Position 2 = High Pass, and Position 3 = Low Pass.

The High and Low Pass frequenies are determined by the Frequency Modules (SIPs) installed in the four (4) 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 |
|---|---|
| 224 | 50 Hz |
| 134 | 70 Hz |
| 114 | 80 Hz |
| 104 | 90 Hz |
| 683 | 120 Hz |
| 563 | 150 Hz |
| 273 | 300 Hz |
| 153 | 500 Hz |
| 103 | 700 Hz |
| 752 | 1 kHz |
| 242 | 3 kHz |
| 182 | 4 kHz |
| 152 | 5 kHz |

The 4180x amplifier is shipped from the factory with 90 Hz High Pass and Low Pass frequency modules (SIP) installed. To change frequency modules, simply remove each resistor SIP and replace it with the appropriate SIP value to achieve the desired frequency.

Low and High Pass frequencies are set independently. Any combination of frequency modules (SIPs) may be used (ie. 80 Hz Low Pass and 120 Hz High Pass).

## INSTALLER'S REFERENCE LOG

DATE INSTALLED:_____

OWNER'S NAME:_____ PHONE:_____

ADDRESS:_____

CITY/ STATE:_____ ZIP:_____

VEHICLE:_____ YEAR:_____

XTANT AMPLIFIER: MODEL_____ SERIAL# _____

**INPUT SENSITIVITY** (CIRCLE SETTING)

FRONT INPUTS

–20dB –10 dB 0dB +10dB +20 dB

REAR INPUTS

–20 dB –10 dB 0 dB +10 dB +20 dB

**FRONT CROSSOVER**
(CIRCLE JUMPER SETTING)

**AMPLIFIER:**

BYP HIGH LOW

**RCA OUTPUTS**

BYP HIGH LOW

**REAR CROSSOVER**
(CIRCLE JUMPER SETTING)

**AMPLIFIER:**

BYP HIGH LOW

**RCA OUTPUTS**

BYP HIGH LOW

**FREQUENCY VALUE**

SIP HIGH PASS FREQUENCY_____

SIP LOW PASS FREQUENCY_____

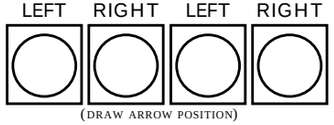
**FREQUENCY VALUE**

SIP HIGH PASS FREQUENCY_____

SIP LOW PASS FREQUENCY_____

**OUTPUT GAIN ADJUSTMENT**

FRONT REAR
LEFT RIGHT LEFT RIGHT



(DRAW ARROW POSITION)

**NOISE GATE ADJUSTMENT**

SWITCH: ON OFF

**THRESHOLD POSITION**

(DRAW ARROW POSITION)

**ACCESSORY MODULES** (CIRCLE SETTING)

**CM 24X** FRONT REAR
YES NO YES NO

**BLM-1** FRONT REAR
YES NO YES NO

**PQM-1** (FRONT) YES NO

**PQM-1** CHIP FREQUENCY _____

**PQM-1** (REAR) YES NO

**PQM-1** CHIP FREQUENCY _____

**SYSTEM COMPONENTS**

SOURCE_____ SERIAL #_____

PROCESSOR(S)_____ SERIAL #_____

_____ SERIAL #_____

AMPLIFIER(S)_____ SERIAL #_____

_____ SERIAL #_____


xtant technologies
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602 431 8686


REV 1197

# xtant technologies

# 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 4180X, 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) sleeved holes located on the circuit board/base assembly. (see illustration)

**MARK WIRES FOR TERMINATION AND REMOVE AMPLIFIER:**
Determine wire lengths and mark for cutting/termination. Remove amplifier before cutting and terminating all wires. **CAUTION: STRIPPING WIRE 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. Note: factory setting is +10 dB / 300mv -1V.

**MOUNT THE AMPLIFIER AND MAKE ALL CONNECTIONS:**

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

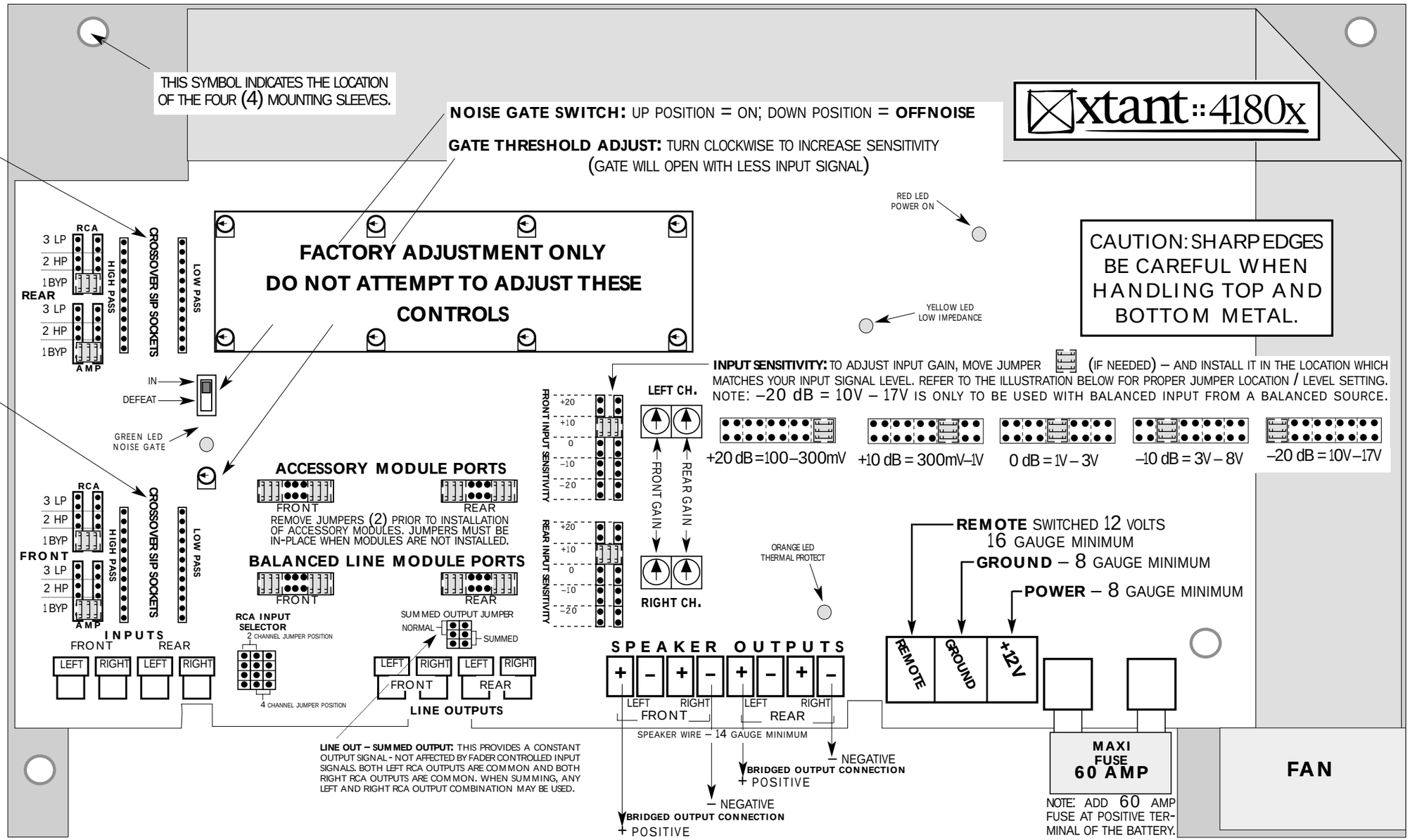
**ADJUST FRONT AND REAR AMPLIFIER GAIN POTS.**

**ADJUST NOISE GATE THRESHOLD (IF USED):**
The amplifier is shipped with the noise gate defeated. 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 maintanence section on page 9 of the **Owner's Manual.** Attach cover to base.

# INSTALLER'S REFERENCE

## XTANT 4180X

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