

INSTALLING THE BLM-1

STEP 1: Locating the Connector

A. Remove the BLM-1 from the packaging and inspect the circuit board.

B. Locate the right angle header connector soldered on the circuit board next to the Xtant logo. See illustrations 2

C. Tip the BLM-1 on end and view the right angle header connector. Notice that one of the openings on the header connector is blocked by white filler material. The BLM-1's mounting system utilizes this blocked receptacle as the "key" to insure proper positioning when installing the BLM-1 onto the amplifier's mounting port. See illustration 1.

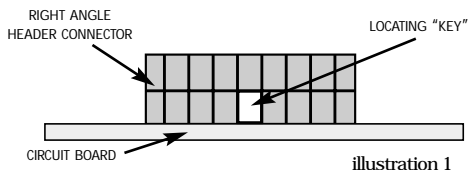


illustration 1

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STEP 2: Adjusting the BLM-1

A. It is easier to make your initial input sensitivity adjustment to the BLM-1 prior to installing the module in the amplifier. Please note that the BLM-1 *bypasses* the input adjustment on your Xtant amplifier. Once installed, all input sensitivity adjustments must be made on the BLM-1.

B. Each of the five jumper positions (-20, -10, 0, +10, +20) will affect the level of the input signal. Refer to the chart below to determine the jumper position which best suits your system. See illustration 2

Setting	Input Multiplier	Result
-20 dB	x .10	reduces signal
-10 dB	x .3	reduces signal
0 dB	x 1	no change
+10 dB	x 3	boost signal
+20 dB	x 10	boost signal

HOW TO USE THE INPUT MULTIPLIER

Head Unit's Output Voltage	500 mV
+10 dB Multiplier	$\times 3$
Resulting Input Voltage	1.5 Volts

C. Locate the input gain jumper which is preset to the +10 position. To change the input sensitivity, simply remove the jumper and place it one of the other four positions (-20, -10, 0, +20 dB).

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STEP 3: Plugging-in the BLM-1

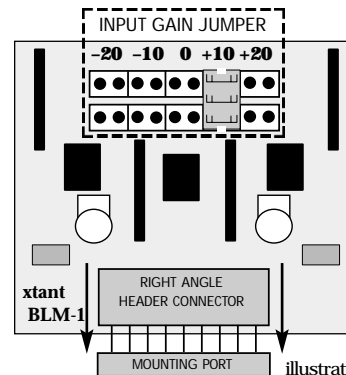


illustration 2

A. Turn-off amplifier. Remove amplifier cover and locate the *Balanced Line Port*.

B. Remove the two header jumpers and locate the missing pin ("key") on the port.

C. Align the blocked receptacle with the missing pin and press the BLM-1 onto the mounting port.

D. Turn amp on and audition input signal level. If further adjustment is necessary, turn amp off and reposition the input gain jumper to achieve the desired input signal level.

BLM-1 APPLICATIONS

The BLM-1 was designed for two different types of applications. First, to eliminate "ground loops" or inducted noises which enter the amplifier through the input signal cables.

Secondly, to provide a superior OEM interface. The BLM-1 will accept speaker level signals from any head unit or low powered amplifier (up to 50 Watts) without adapters. In this application, we suggest starting in the -20 position.

Application Chart

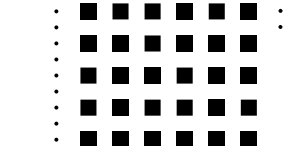
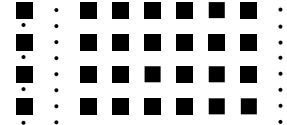
<u>MODEL</u>	<u>INPUTS</u>	<u>BLM-1'S REQUIRED</u>
2140c	2 channels	1
3150c	2 channels	2
3150c	4 channels	2
303x	2 channels	2
303x	4 channels	2
3300c	2 channels	2
3300c	4 channels	2
603x	2 channels	2
603x	4 channels	2
4180c	2 channels	2
4180c	4 channels	2
1001d	2 channels	1
1001dx	2 channels	1

FOUR - YEAR LIMITED U.S.A. WARRANTY

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Xtant Technologies (Xtant) warrants its amplifiers and accessories to be free from defects in materials and workmanship under normal use and service for a period of four (4) years from the date of original purchase when the unit is installed by an Authorized Xtant Select Dealer. Non-Authorized Dealer installed products carry a one (1) year parts and labor limited warranty. The extent and conditions of Xtant's Limited Warranty are as follows:

1. Authorized Xtant Select Dealer Installed Products: Xtant will either repair or replace at no charge, to the original purchaser, any unit which Xtant's examination discloses to be defective and under warranty, provided the defect occurs within four (4) years from the date of purchase when the unit is installed by an Authorized Xtant Select Dealer and the product is returned immediately to Xtant. This warranty is not transferable.
2. Non-Authorized Xtant Dealer Installed Products: Xtant will either repair or replace at no charge, to the original purchaser, any unit which Xtant's examination discloses to be defective and under warranty, provided the defect occurs within one (1) year from the date of purchase and the product is returned immediately to Xtant. This warranty is not transferable.
3. The date of purchase and proof of Authorized Dealer Installation of an Xtant amplifier and/or accessory must be established by an original (or copy of the original) sales receipt which must accompany the article being returned for warranty work.
4. This warranty shall NOT apply to any Xtant unit found to have the original factory serial number removed or defaced. All products received (by Xtant) for in warranty or out of warranty repair, with their original serial numbers removed or defaced, will NOT be repaired and will be returned to sender, freight collect.
5. The provisions of this warranty shall not apply to any Xtant unit used for a purpose for which it is not designed, which has been repaired or altered in any way, or which has been connected, installed, or adjusted other than in accordance with the instructions furnished in Xtant's owner's manual. Nor shall this warranty apply to any part which has been subject to misuse, neglect, or accident.
6. Xtant does not authorize any other persons to assume any other liability in connection with its products. This warranty is the only express warranty made by Xtant applicable to its products. Any implied warranty or merchantability or fitness for a particular purpose applicable to Xtant's amplifiers and/or accessories is limited in duration to the duration of this limited warranty. Xtant shall not be liable for the incidental, consequential, or commercial damages resulting from the breach of this written warranty. Some states or provinces do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts; so the above limitations or exclusions may not apply to you.
7. Your unit will be serviced on an in-warranty basis within the warranty period for the correction of warranted defects. If improper operation of your Xtant product should occur, contact your Authorized Xtant Select Dealer for assistance with the return and factory repair of your Xtant product. If an Authorized Xtant Select Dealer is not available, please contact Xtant's Customer Relations Department at (602) 970 9900 from 8:00 am to 5:00 pm (MST) for assistance.

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