

## Mounting the Control Box

### Rear Mount

- Gently pull the black gain knob off the shaft to remove it.
- Plug the cord into the RGM control box.
- Use a 3/8" size drill bit to make a hole in the surface you wish to mount the knob.
- Place the control box behind the panel and insert the knob through the hole.
- Replace the nut, located in the parts bag, on the shaft by turning it clockwise, and then gently push the knob back onto the shaft.

The RGM knob is now controlling the gain of your amplifier.

### Surface Mount

- Plug the supplied cord into RGM control box.
- Secure control box to the surface where you wish to mount it using the supplied screws.

The RGM knob is now controlling the gain of your amplifier.



xe series amplifiers

## Xe Series Amplifier Owner's Manual Addendum

### Performance Modules

To enhance the performance of your Xtant Xe Series amplifier, several Xtant accessory modules have been pre-installed at the factory. These accessory modules enhance your entire system, expanding and customizing the amplifiers performance for your unique application.

### Parametric Equalization Module (PQM)

The PQM is a precision tuning instrument, designed to tailor the sound produced by Xe series amplifiers to suit your individual taste. This fully adjustable, one band parametric equalizer provides individual frequency, Q or bandwidth, and  $\pm 18$  dB gain adjustment controls. By utilizing one of three (3) frequency chips included, any frequency from 20 Hz to 20 kHz can be chosen\*. The "Q" ranges from 1 to 10 in value, allowing a wide variety of bandwidth adjustment to address the subtle tuning requirements common to mobile audio systems. The lower the "Q", the broader the bandwidth of frequencies that are affected by the boost or cut. The amplifiers are shipped with the following default parameters for the PQM:

#### X1001e

"Q" Setting = 6  
Center Frequency = 80 Hz  
Boost/Cut = +6dB

#### X604e & X603e

"Q" Setting = 6  
Center Frequency = 200 Hz  
Boost/Cut = -12dB

**\*NOTE:** Since the X1001e is designed to amplify low range frequencies the factory installed PQM comes with the lower range frequency module only.



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7676 South 46th Street Phoenix AZ 85042  
888.449.8268 xtant.com

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## Adjusting the PQM

**NOTE:** Place service jumper in the off position before making any connections.

Should you decide to change the default parameters of your Xe amplifier's PQM, the PQM may be installed "vertically" using the right angle header connector during the "tuning process". However, the final mounting position must be in a "horizontal" position to allow the cover to be re-attached.

The PQM is adjusted the easiest with the aid of a Real Time Spectrum Analyzer (RTA). However, the analyzer is not a requirement. The analyzer will provide visual feedback when following this simple procedure.

- Set system to a moderate volume level and play pink noise.
- Rotate the boost/cut control clockwise (fully) to +18dB. The RTA's display will now show you the position of the center frequency and "Q" settings of the PQM.
- Rotate the frequency control to the frequency you wish to adjust.
- Rotate the "Q" control to the width of the dip or peak in response that you are equalizing.
- Adjust the gain control to achieve the desired response curve.



## Final Installation of the PQM

- Turn the amplifier off. Remove PQM from its "vertical" mounting position. Align the white stand-off with the hole on the rear of the PQM circuit board. Next, align the blocked receptacle with the missing pin on the mounting port. Please pay special attention to the one missing pin on the accessory port and your module. This will ensure proper alignment. Press the PQM onto the port and secure it to the stand-off by applying downward pressure.
- Turn amp on and listen to the system. If further adjustment is necessary, the PQM may be adjusted when mounted in this final mounting position.

## Low Frequency Equalizer (LFQ)

The LFQ will add bass impact to any system. By itself it provides +4dB, +8dB, or +12dB of boost at a center frequency of 45Hz. The amplifier is shipped with the following default parameter for the LFQ.

Output: +8dB

## Adjusting the LFQ

**NOTE:** Place service jumper in the off position before making any connections.

The LFQ provides +4, +8, or +12dB of Bass Boost at 45 Hz with a "Q" of 3. This frequency and "Q" combination was chosen to enhance overall bass response. To adjust the level of Bass Boost, move the LFQ's jumper to one of the three available positions.

- Make the initial Bass Boost adjustment to the LFQ prior to installing the module in the amplifier. We suggest starting with the jumper in the +8dB position.
- After listening to your initial setting, if you wish to adjust the Bass Boost, turn the amplifier off prior to moving the Bass Boost jumper. Simply move the jumper to +4dB to decrease or +12dB to increase the bass output.

## Plugging in the LFQ

- Turn the amplifier off. Remove amplifier cover and locate the accessory port.
- Remove the TWO (2) jumpers from the accessory port. Please pay special attention to the one missing pin on the accessory port and your module. This will ensure proper alignment.
- Align the blocked receptacle with the missing pin and press the LFQ onto the accessory port. Align the LFQ up with the accessory port and press down firmly.
- Turn amp on and audition sound. If further adjustment is needed, turn amp off and reposition the Bass Boost jumper to achieve the desired level of bass response.

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### Remote Gain Module (RGM)

The RGM adds remote gain control for either subwoofer or stereo channels. Remote mounted control adjusts up to 15dB of gain. In your new X1001e and/or X603e amplifier the LFQ and RGM modules have been stacked together to provide a remote level control function over the Bass Boost as well as the overall gain. With a mounting depth of 1 3/4" and 20' RJ11 modular cord included, installation remains flexible.

The RGM is designed to be adjusted with the use of a control knob.

- Plug the supplied cord into the RGM's socket on the module board.
- Turn the amplifier off. Remove amplifier cover and locate the accessory port.
- Remove the TWO (2) jumpers and locate the missing pin ("key") on the port. Please pay special attention to the one missing pin on the accessory port and your module. This will ensure proper alignment.
- Align the blocked receptacle on the right angle header connector with the missing pin and press the RGM onto the mounting port.
- Rotate the amplifier's gain control clockwise to the desired maximum level.
- Run the RGM's cord out of the amp, near the RCA inputs.
- Replace the amplifier's cover, and put the screws back in to secure it to the base-plate.
- Run the supplied 20' cord to the location in the vehicle where you want to mount the gain knob.