Congratulations on purchasing the **SOUND STREAM** BX-10. You are now the proud owner of the finest and most accurate bass enhancing & restoration system available. Whether your interest is in Beethoven's kettle drums, in Miles Davis' trumpet or in the percussion of Rap lyrics, the BX-10 would restore those long lost missing bass notes, with amazing accuracy and clarity.

There's a dash mounted level control unit which permits instant adjustments; whether it's because your passenger is not as much a "bass-head" as you are or for whatever reason you want to turn it down a bit, this handy knob does the trick.

**Model and Serial #**  
**Installation Shop**  
**Dealer's Name**  
**Installation Date**  
**Date of Purchase**

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**CAUTIONS!** Prolonged listening at extremely high levels may result in hearing loss. Even though your car audio system with your new Soundstream BX-10 Digital Bass Driver sounds better than anything you've ever heard, exercise caution to prevent hearing damage.

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**Features**

**Bass Driver:** The BX-10 contains a Bass Driver circuit that accurately recreates and injects low frequency information back into the signal path. What that means in everyday terms is that the BX-10 will give more bass impact to your best compact discs or even your old tapes.

**Bass Equalization Circuit:** The BX-10 has a unique equalization circuit that contours the restored bass to your speaker systems.

**Dash Mount Remote Control:** The BASS-10 comes with a Dash Mountable Remote Control that allows you to enjoy the effects of the BX-10 without having to leave the driver's seat. The Dash Mount Control has a LED indicator, this LED will grow brighter as you add more bass or dimmer when you decrease it.

**Bass Maximizer Indicator:** Not only does the BX-10 provide good music to your ears, but it also gives you some visual enjoyment as well. On the Chassis of the BX-10, there are three LED indicators that flashes when the bass maximization circuit is activated.

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**Functions**

**THE OUTSIDE**

1. **Inputs:** The inputs of the BX-10 use a balanced input circuit to help minimize induced noise. They are also designed to handle very high signal voltages up to 15 volts.

2. **Outputs:** These RCA connectors should be connected to the next component after the BX-10, such as a crossover, equalizer, or amplifier. Just remember, the BA-10 should go online before a crossover.

3. **Dash Remote Control**

4. **Power Connector**

5. **Para-Bass Controls:** These 2 knobs control the Para-Bass functions of the BX-10. The SWEEP knob allows you to pick the center frequency that you want the BX-10 bass restoration circuit to maximize. The WIDE knob adjusts how wide of a frequency range the BX-10 will effect.

6. **The PFM Subsonic Filter Switch:** The BX-10 utilizes a PFM Subsonic Filter Switch which will help with speaker control and amplifier power management. This PFM Subsonic Filter Switch comes with three frequencies selections 35Hz / 50Hz / 80Hz. On most systems, setting the switch at 35Hz is fine. If you want to protect your speaker system even more, you should try a higher frequency. Often a higher frequency actually sounds louder and cleaner.

7. **Bass Maximizer Indicator:** These 3 LED indicators flashes when the bass maximization circuit is activated.

8. **Power On LED.**
9. **Input Grounding**: For most systems you can leave this jumper set in the BALANCED position. In some systems, the source unit may look for a ground through the RCA connectors. In this event, you should go ahead and change the jumpers to the UNBALANCED position.

10. **Ground Isolation Jumpers**: Occasionally alternator whine may appear in a system because the source unit and amplifier may use different grounding. To help in this situation, we have provided alternative grounding connections. Make sure your system is turned OFF before you move these jumpers.

11. **Bass Output Control Jumper**: Not all systems are designed the same, some systems are designed strictly for SPL (sound pressure level) while others are a little more tame. The Bass Maximizer circuit can either increase or decrease the signal voltage of the Bass Restoration Circuit. Depending upon your system, you may want to change these jumpers to a higher or lower setting to maximize your bass output and protect your speakers. In most systems the factory setting will suit you fine. We recommend you try the factory setting first.

**Power Connection**
- **B+(12V)**: Connect a red wire to the car battery or other power source.
- **REMOTE**: Connect an orange wire to remote activating (12V DC) wire of car stereo or equalizer.
- **GND**: Connect a black wire to the car chassis for ground connection.
Adjusting the Para-Bass Controls

The bass response in a system is affected by four factors:
(1) The acoustics of the vehicle
(2) The locations of the speakers
(3) The music on the tape
(4) Speakers and speaker enclosures.

Because of the variations in the recording process, we developed BX-10 to help restore
any low frequencies lost during the recording process; however, the acoustics of various
environments are different.

The **Sweep** control allows you to select a center frequency (the frequency most affected)
between 27 and 63 Hz. The **Width** control then allows you to control the shape of the filter
centered around the **Sweep** frequency.

Setting The Bass Output Control

The BX-10 is the most powerful bass component. This device equipped with several
different Bass Output selections. If you should need to change the settings, Please use
the chart below for guidance. It is recommended: listen to the factory setting before
changing your Bass Output settings.

**Recommended Settings**

<table>
<thead>
<tr>
<th>Setting</th>
<th>Amplifier Input Voltage</th>
<th>Minimum Speaker Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5 Volt</td>
<td>3 Volt or less</td>
<td>8&quot;</td>
</tr>
<tr>
<td>5 Volt</td>
<td>5 Volt or less</td>
<td>10&quot;</td>
</tr>
<tr>
<td>7.5 Volt</td>
<td>7.5 Volt or less</td>
<td>12&quot;</td>
</tr>
<tr>
<td>10 Volt</td>
<td>Oh My Gosh !!!!!!!!!!!!</td>
<td></td>
</tr>
</tbody>
</table>

Specifications

<table>
<thead>
<tr>
<th>Maximum Input Level</th>
<th>15 Vrms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Output Level</td>
<td>13.5V peak</td>
</tr>
<tr>
<td>Frequency Response</td>
<td>10Hz - 100KHz; +/-1dB</td>
</tr>
<tr>
<td>Total Harmonic Distortion</td>
<td>0.003%</td>
</tr>
<tr>
<td>Signal to Noise Ratio</td>
<td>-130dB</td>
</tr>
<tr>
<td>Balanced Input Noise Rejection</td>
<td>&gt;60dB</td>
</tr>
<tr>
<td>Input Impedance</td>
<td>10 Kohm</td>
</tr>
<tr>
<td>Output Impedance</td>
<td>150 Ohms</td>
</tr>
<tr>
<td>Power Supply</td>
<td>High headroom PWM</td>
</tr>
<tr>
<td>Power draw</td>
<td>150mA</td>
</tr>
<tr>
<td>Recommend fuse rating</td>
<td>1 Amp</td>
</tr>
</tbody>
</table>
Trouble Shooting Guide

If the Unit does not turn-on, and / or the power indicator LED is NOT illuminated, do this:

1) Check and make sure that B+ and GND are not reversed
2) Check that all power wires are properly connected and has the appropriate potential (11-16 volts)
3) Check that the fuse is intact.

If you experience high audible distortion or low output volume:

4) Check that the input and output levels are set correctly. Input should match the source and output should match the sensitivity of the host.
5) Check the crossover settings; make sure they are correct; for high "Q" systems, set the crossover half an octave above the desired point and for low "Q" systems, set it 1 octave or more above.

If you experience whining or engine noises:

6) Verify that the GND connection is secure, the conductor (wire) is not too thin and unnecessarily long.
7) Check that the B+ wire is not too thin and unnecessarily long.
8) Change the power source; try taking power from a different point.

Installation

TAPPING SCREW
SPRING WASHER
PLAIN WASHER