SOUNDSTREAM®

TECHNOLOGIES

MTUBE-8

Professional Dual-Valve/Tube
Pre-Amplifier-Driver Unit

Owner's Manual
and
Installation Guide

Congratulation!

You now own the **Soundstream MTUBE-8** Pre-Amplifier, the product of an uncompromising design and engineering philosophy. Your **Soundstream MTUBE-8** Pre-Amplifier Will outperform any other parametric equalizer in the world.

To maximize the performance of your system, we recommend that you thoroughly acquaint yourself with its capabilities and features. Please retain this manual and your sales receipt for future reference.

Soundstream Pre-Amplifier is the result of American innovation and the highest quality control standard. When properly installed, they will provide you with many years of listening pleasure. Should your Pre-Amplifier ever need service or replacement due to the theft, please record the following information which will help protect your investment.

Model and Serial # _____

Dealer's Name _____

Date of Purchase _____

Installation Shop _____

Installation Date _____

CAUTION!

Prolonged listening at extremely high levels may result in hearing loss. Even though your car audio system with your new Soundstream MTUBE-8 Pre-Amplifier sounds better than anything you've ever heard, exercise caution to prevent hearing damage.

USING THE M-TUBE TO ITS WITHOUT FULLEST POTENTIAL

In order to utilize the full capacity of this unit,it is suggested that you read this section from beginning to End and then if you still have questions,our Tech assist department personnel can help.

The M-TUBE is a very unique device. Not only does it provide you with extended range audio,faithfully preserving and reproducing all of the original detail & nuances but it also has some pretty unique features.With this device,you have the ability to either[a] maintain separate FRONT[Line] and REAR [aux] inputs and outputs or[b] utilize either of the line /aux.inputs,to obtain outputs on both Front & Rear plus Sub,with full fader control.Please see the expanded functional descriptions below.

A] **Using the line input only** [place line/aux switch in " IN" position],the following is realized -there would be no output on the Rear channels but there would be outputs on both Front & Sub sections. At this time the input " select " switch is in the " IN" position,moving this switch to the out position,will produce an output on the Rear channels as well.The fader control functions in favour of "F" or Front.

B] **Using the Auxiliary input only** [place line / aux switch in the " OUT" position]; the following is realized-there would be no output on the Front channels but there would be outputs on the Rear & Sub sections. At this time, the " select" switch is in the " IN" position; moving this switch to the out position, will cause ALL outputs to be turned-off, there 'd be no output whatsoever on any channels. The fader control functions in the favour of " R" or Rear... but there's no output here!

USING THE M-TUBE TO ITS WITHOUT FULLEST POTENTIAL

C] **Using two sets of inputs on both line and auxiliary** [the line/aux switch can be either in or out],the following is realized-the program material [music or other audio] presented on the aux. input will be available on the Rear & Sub channels, while the materials presented to the line inputs will be available on the Front channels exclusively. At this time, both switches line & aux are in the "IN" position , if the " select" switch [only] is now placed in the " OUT" position, the line- input channels' program material, will now be available on ALL outputs , thereby effectively switching off or canceling the aux. inputs. The fader control functions to " balance" between line or "F" and auxiliary or "R" .

What are the benefits of the above features you may ask: Well, for the first time, you can incorporate a preamplifier to enhance the entire system but still maintain a separation between the Front channels and the Rear channels , if this is your preference. That way, you can add pre or post equalization and or crossover functions to either Front and/or Rear without affecting the other! This is just one example, the only limit here is your imagination..note that while equalization can be added pre or post the preamplifier 's processing we suggest that crossover functions be added after or post preamplifier processing.

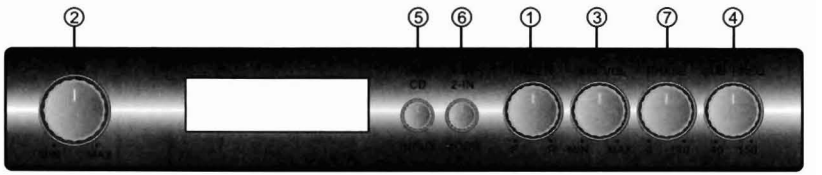
FEATURES

The subwoofer output is an additional convenience when you wish to add subwoofers to your audio system to greatly enrich the bass sound.

It will perform with any unit operating in a 12 volt negative ground electrical system.

- Professional Dual-Valve / Tube Pre-Amplifier - Driver
- Exceptionally high co-channel separation
- Harmonic feed-back loop control circuitry
- Double sided low resistance copper-clad PCB
- Cool-glow, dual color tube window
- Dedicated line input - Front output
- Assignable auxiliary input - Front / Rear output
- Variable phase /time-lag control (0~180)
- Separate Sub volume control (30 HZ ~ 160 HZ)
- Master volume control
- Platinum input & output RCA connectors
- 3 position selectable (-) audio reference.
- Independently variable Left & Right (post source) input controls

FRONT PANEL CONTROLS



1. FADER CONTROL
This control adjusts the volume between the front and rear speakers in a 4 speaker system.

2. VOLUME CONTROL
This control adjusts the output level

3. SUBWOOFER VOLUME
This control adjusts output level of subwoofer.

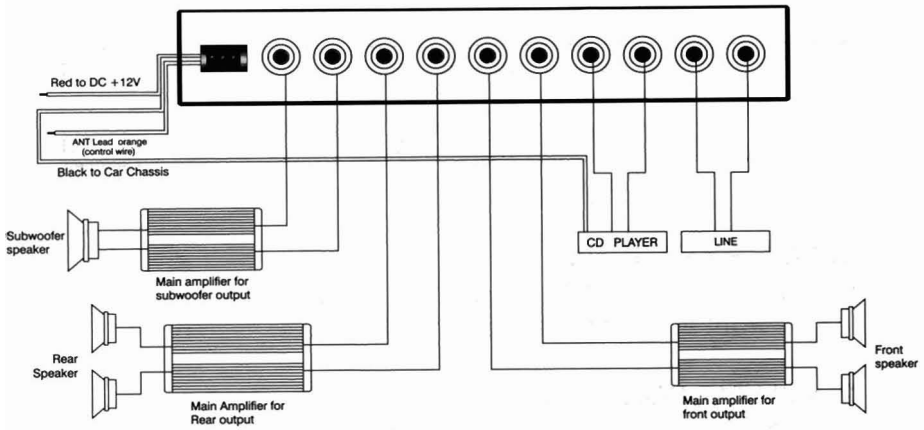
4. SUBWOOFER FREQ.
This control select subwoofer frequency 40 or 150 Hz

5. INPUT SELECTOR SWITCH
This switch select the LINE input or AUX input

6. TWO CHANNEL OR FOUR CHANNEL
Two Channel or Four Channel select switch
This switch select,Two Channel or Four Channel ouput.

7. PHASE INVERTER CONTROL
Setting this knob to the 180 position and shifts the subwoofer outputs signals 180 degrees out-of-phase relative to the front and rear output signals.

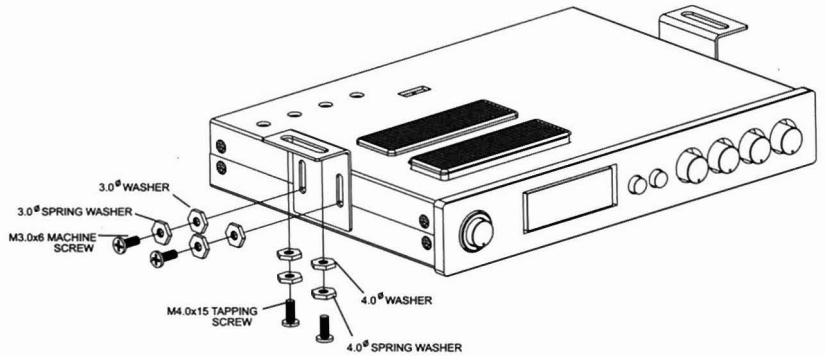
ELECTRICAL INSTALLATION



NOTES: Set your source volume at one -half to three quarter up and leave it.
Always use your volume as a master(main) volume control. It has better electronics, higher S/N ratio and is more linear than any source unit volume available. If engine noise is audible, try raising the volume on the source unit, and/or check the ground connection on the unit.

MECHANICAL INSTALLATION

1. Select the desired location to mount unit under the dash board.
2. Drill (4) 4.2 mm diameter holes. Fix the mounting bracket underdash or hump with (4) 4 x 15 mm tapping screw. Be careful when drilling so as not to damage existing wiringunder the dash board.
3. Mount unit to the mounting bracket with (4) 3 x 6 mm machine screw.



SPECIFICATIONS:

- SUBWOOFER FREQUENCY RANGE: 30 ~ 160 Hz
- SUBWOOFER SIGNAL OUT: 10 VOLTS RMS/14V PEAK
- RMS OUTPUT: FRONT/REAR 10V RMS/ 14V PEAK
- OPERATION VOLTAGE: 11-16V NEGATIVE GROUND
- THD +N: 0.0021%
- S/N RATIO: 110 dB REF 1V INPUT
- FREQUENCY RESPONSE: 15 Hz - 55K Hz, +/- 1dB
- STEREO SEPERATION: 92 dB / 100 Hz - 1 KHz
- OUTPUT IMPEDANCE: 470 Ohms
- BOOST /CUT: 18 dB
- INPUT IMPEDANCE: 470k Ohms
- INPUT SENSITIVITY: ADJUSTABLE 50mv ~ 5V RMS
- HEADROOM: 20 dB

OPERATION

1. When the LINE cassette or CD player connected to this unit is turned ON, the unit turns ON and the in dicator lights up.
2. With the 4 speaker system, use the fader control to adjust the sound balance between the front and rear speakers.
3. Rotate the graphic equalizer controls to obtain the preferred sound quality.
4. Use the subwoofer output level control on the front to adjust the sound level heard from the subwoofer.

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