

HARMAN CBT 1000 and 1000E Quick Guide

Wiring Guide for 1x CBT 1000 speaker

Connect 1 amplifier channel to each CBT 1000 speaker

Recommended Amplifiers

Crown XTi6002 – 2100W @ 4 ohms
(One channel for each CBT 1000)



OR

Crown CDi6000 – 2100W @ 4 ohms
(One channel for each CBT 1000)



OR

Crown DCi2x2400N – 2400W @ 4 ohms
(One channel for each CBT 1000)



(NL4 or Binding
Post Outputs)

(Barrier Strip
Outputs)

(Barrier Strip
Outputs)

(Barrier Strip
Input)



CBT 1000

Amplifier Selection Considerations

- How much power is needed (*less powerful amplifiers can be used if you don't need all the SPL the speaker is capable of producing. However, pushing a lower-power amplifier into clipping can damage the speaker.*)
- How much DSP and which DSP functions are required.
- Whether the amp needs to be networked (DCi-N).
- Project's budget.

Wiring Guide for 1x CBT 1000 speaker + 1x CBT 1000E Array

Connect 1 amplifier channel to each CBT 1000 + CBT 1000E array

Recommended Amplifier

Crown DCi2x2400N – 2400W @ 4 ohms
(One channel for each CBT 1000)



(Barrier Strip
Outputs)

(Barrier Strip
Input)

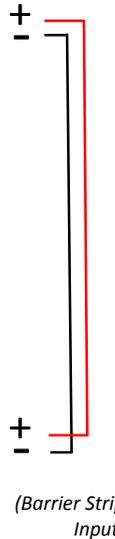


CBT 1000

CBT 1000E

Note:

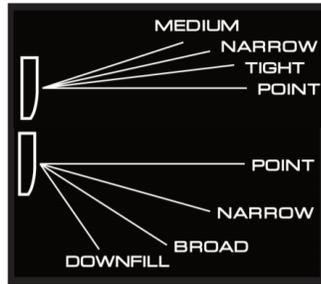
- **Important** – The CBT 1000E must be connected in parallel with the CBT 1000 and the two of them **MUST** be in proper polarity. “+” to “+” and “-” to “-”.
- Other system configurations are available. Please reach out to your Harman sales rep for details. An exception request may be required, depending on equipment utilized.



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Selectable Coverage Patterns

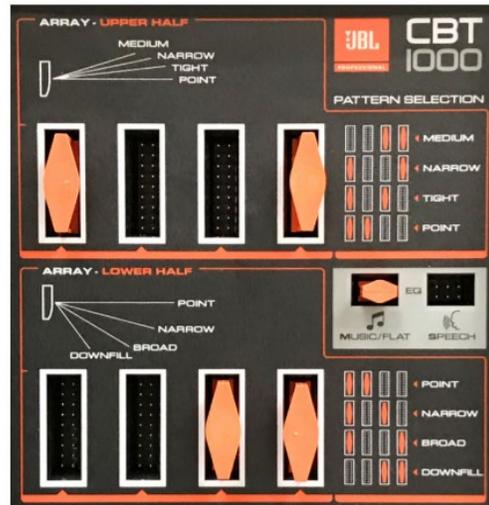
Upper-Half Coverage Pattern Selections



Lower-Half Coverage Pattern Selections

Coverage Pattern Selection Panel -- Located on side of cabinet; covered by plate. Remove screws using #1 Phillips-head screwdriver (not included).

Position the orange headers to select the Upper and Lower coverage patterns and Music/Speech voicing.



(Header position example shown above: Upper Half NARROW pattern setting; Lower Half DOWNFILL pattern setting; EQ is MUSIC/FLAT setting.)

DSP Processor Settings for 1x CBT 1000 or for 1x CBT 1000 + 1x CBT1000E Array

High-Pass & Limiter Settings:

- Protective High-Pass: 35 Hz, 24 dB/oct, Linkwitz-Riley
- LevelMax™ Limiter Settings:
 - RMS Threshold (VRMS): 65V
 - Click the "Automatic" Radial Button to set Peak threshold, Peak Release, and RMS Release to "Auto"
- Transducer Thermal Limiting, Thermal Voltage: 52V
- Thermal Response Time (Sec): 10 Sec

For recommended on- and off-wall EQ settings, go to:

https://jblpro.com/en-US/site_elements/cbt-1000-1000-e-eq-tunings

For more information about the CBT 1000 and CBT 1000E, go to:

<https://jblpro.com/en-US/products/cbt-1000> and <https://jblpro.com/en-US/products/cbt-1000-plus-cbt-1000e-system>