

Model No.

WB4T-4A30-T870

Speaker Assembly w/Torsion-Mount Grille

INCLUDES:

- 4 inch 30W coaxial driver
- 70V transformer
- White torsion-mount grille



PREMIUM 4" 30W COAXIAL DRIVER engineered as a step up in sound quality and performance over standard commercial coaxial drivers, provides very high quality paging and background music reproduction for hotel lobbies, retail stores, transportation terminals, and similar venues.

CONSTRUCTION & FEATURES

DRIVER (4A30):

- 4" 30W coaxial driver 135 degree dispersion for large coverage areas. Driver's capacity to deliver a wide angle of sound distribution at 2kHz with uniform response and clear audibility ensures complete coverage with minimum units.
- Ten oz. magnet coupled with 1" copper voice coil driving a polypropylene cone with half-roll rubber surround for long cone travel and good edge damping.
- Post-mounted, liquid-cooled tweeter is a 1" dia. balanced drive dome with first order high-pass filter.
- Frequency response is 70Hz-20kHz (+6dB) and 50Hz-20kHz (+8.8dB) with a crossover at 5kHz.
- Frame is stamped 20-ga. steel with black enamel paint finish and zinc plated backplate.

TRANSFORMER (TLM-870A):

- Factory wired 70V transformer with primary taps at 8, 4, 2, and 1W
- Frequency response of 50Hz-15kHz (+1dB).

GRILLE (WB-4T):

- Certified U.S. steel punched
- White powder coat finish
- 7.25" diameter
- Mounts to a backbox with torsion spring assembly.
- Made in the U.S.A.

COMPATIBLE COMPONENTS (order separately)

Enclosure (DX104-T):

- 22-gauge steel enclosure with black powder coat finish
- Acoustically coated to eliminate metallic resonance and lined with 1.5" thick batting (1.5 lbs. density rating) to neutralize undesirable resonance in high frequency range.
- Measures 10" dia. x 6.75"D.
- Features an additional 3/8"D formed flange and four combination 1/2-3/4" knockouts for conduit and two flexible mounting straps positioned at 180 degree intervals.
- Made in the U.S.A.

Channel Rails (SS Series):

- Channel rails can be used to rough-in the suggested enclosure (backbox) before a drywall ceiling is installed.
- Made in the U.S.A.

Tile-Bridge (LBS4-DX):

- Can be used with the enclosure to distribute speaker weight in suspended ceiling installations.
- Made in the U.S.A.

MODEL SUMMARY

Model No.	Description	Driver	Transformer Taps	Grille
WB4T-4A30-T870	Driver + transformer + grille assembly	4" 30W coaxial	8, 4, 2, 1W	Round, torsion

A&E SPECIFICATIONS

The speaker assembly shall be Lowell Model No. WB4T-4A30-T870, which shall include 4" driver, attached 70V 8W transformer and white torsion grille. The driver shall be of the coaxial type having high and low frequency transducers. The low frequency section shall have a 4" dia. polypropylene cone and the high frequency section shall have a tweeter with a 1" dia. balanced-drive dome. A built-in electrical crossover network shall be employed to accomplish proper frequency division between the two drivers. The crossover frequency shall be at 5kHz with a 1st order high-pass filter. It shall be capable of producing a uniform audible frequency response over the range of 70Hz-20kHz (+6dB), 50Hz-20kHz (+8.8dB) with a dispersion angle of 135 degrees @ 2000Hz-6dB. The average sensitivity shall measure 88.0dB (SPL at 1W/1M). Rated power handling shall be 30 watts (EIA 426B). The low frequency voice coil shall have a 1" dia. and operate in a magnetic field derived from a ferrite (ceramic) magnet having nominal weight of 10 oz. The high frequency voice coil shall have a 0.53" dia. and operate in a magnetic field derived from a Neodymium magnet having a 0.06 oz. nominal weight. Voice coil impedance shall be 8 ohms. The frame shall be structurally reinforced stamped 20-ga. steel with an overall diameter of 5" with four round and four obround holes equally spaced on 4.66" dia. mounting bolt circle. All external metal parts shall be finished in black enamel paint or zinc plating to resist rust and corrosion. The transformer shall have primary taps at 8, 4, 2 and 1 watt and frequency response of 50Hz - 15kHz +1dB. It shall be factory-mounted to top of driver. The driver/transformer shall be mounted to a one-piece punched steel grille. The 7.25" dia. torsion-mount grille shall be finished in white powder coat paint.

DRIVER + TRANSFORMER SPECIFICATIONS

Driver + Xfmr. No's.	Frequency Response	Dispersion 2000Hz octave (-6dB)	Sensitivity	Assembly Depth *	Assembly Weight	Max SPL
4A30 + TLM-870A	70Hz-20kHz (+6dB) 50Hz-20kHz (+8.8dB)	135 degrees conical	88.0dB Avg. SPL	4.5"	2.9 lbs.	97.0dB **

* Minimum depth required for assembly to be rear-mounted to enclosure. Additional technical information available on specification sheet for Driver No. 4A30.

** Calculated value 1M @ maximum transformer tap (8W)

TRANSFORMER SPECIFICATIONS

Model No.	Power Rating	Voltage	Primary Taps	Response	Insertion Loss
TLM-870A	8W	70V	1, 2, 4, 8W	50Hz-15kHz (± 1 dB)	0.8dB

GRILLE SPECIFICATIONS

Model No.	Overall Diameter	Mounting Projection	Speaker Stud Circle	Mounting Style	Material	Finish
WB-4T	7.25"	0.25"	4.69"	Torsion	20-ga. Steel	White

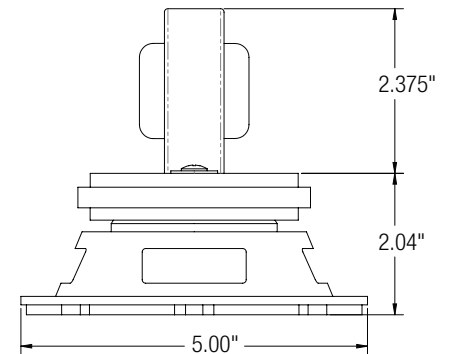
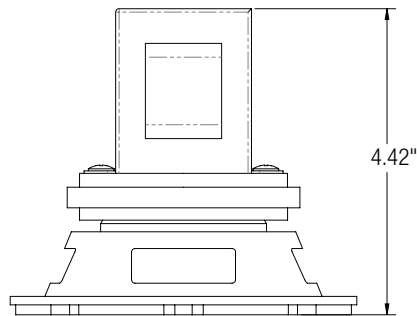
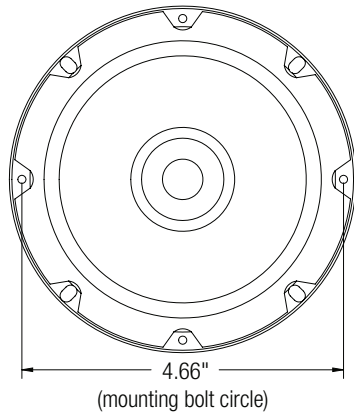
TECHNICAL DRAWINGS

Dimensions are inches and [mm] unless stated otherwise.

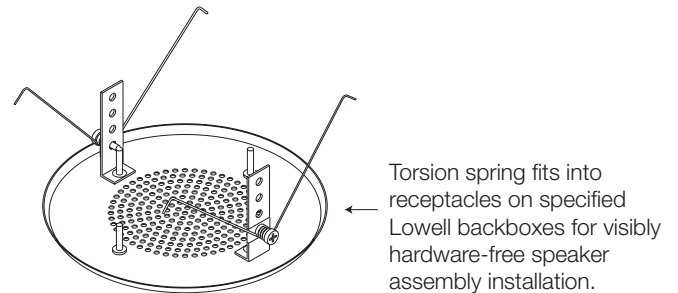
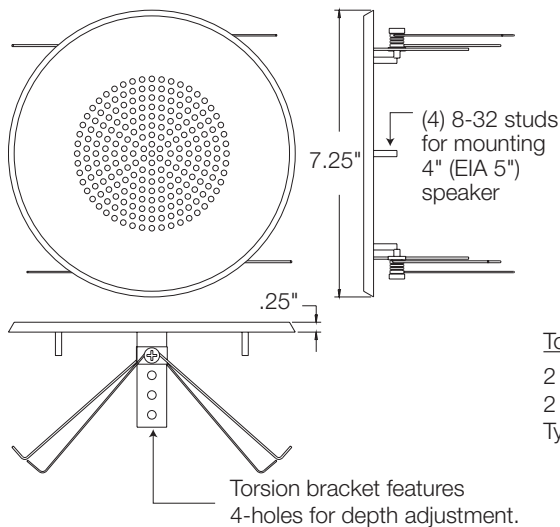
SPEAKER+TRANSFORMER:

Four 0.2" x 0.218" obround holes spaced at 90°
 Four 0.116" dia. holes spaced at 90°

Factory-wired transformer is mounted to top of driver



TORSION-MOUNT GRILLE:



Torsion device includes:

- 2 Torsion brackets (each installs to speaker stud with one 8-32 nut provided)
 - 2 Torsion springs (each installs to bracket with one shoulder bolt and clip provided)
- Typically, the torsion device is installed before the driver is mounted.