

To: Users of CEA-2031, Testing and Measurement Methods for Mobile Loudspeaker Systems

From: CEA Technology & Standards Department

Date: March 2007

Subject: Erratum

Please note that there is an error in the published version of CEA-2031 (July 2006). In section 11.2 the reference to IEC 60268-5 (2003), Clause 17.3 is incorrect. The correct reference is IEC 60268-5 (2003), Clause 17.2.

We apologize for any inconvenience.

CEA-2031, Section 11.2 (with corrections noted):

11.2 Secondary Ratings and Disclosures

The frequency response of a subwoofer, as determined in 9.

Maximum rms amplifier power that the loudspeaker is capable of handling when tested in a manufacturer-specified enclosure, as determined in 4.

The maximum peak power handling capability of the loudspeaker may be reported, but the test signal used to determine it shall not exceed four times the test signal used to determine the rms power handling capability of the loudspeaker. Maximum peak power handling capability shall be determined in accordance with IEC 60268-5 (2003), Clause 17.2, using the manufacturer's advertised operating bandwidth for the loudspeaker and, if appropriate, the manufacturer's advertised optimum enclosure. If no optimum enclosure is specified then the test shall be performed in free air. This procedure measures the maximum voltage that the drive unit of a system can handle. The maximum power it can handle (in Watts) is determined by squaring the maximum voltage (in volts) and dividing by the loudspeaker rated impedance (in ohms), determined using the procedure in 7.

The sensitivity of the loudspeaker, reported as follows:

- SPL for 1 Watt at one meter, as determined in 6.

The maximum linear one-way (not peak-to-peak) excursion of the loudspeaker, reported as follows:

- For non-low frequency loudspeakers: $X_{max_{10}}$ in mm, as determined in 10.
- For low frequency loudspeakers: $X_{max_{20}}$ in mm, as determined in 10.

If a speaker has optional accessories included that will make it suitable for alternative cutout sizes, mounting depths, screw pitches, etc., this shall be disclosed to the consumer in the form of a secondary speaker size.