

2014 tundra speakers





stroke in typical overhung coil arrangements. This inductance modulation is an important source of nonlinearity distortion in loudspeakers. Including a copper cap on the pole piece, or a copper shorting ring on it, can reduce the increase in importance seen at higher frequencies in typical drivers, and also reduce the nonlinearity due to inductance modulation. The effective projected area of the cone or diaphragm. It is difficult to measure and depends largely on the shape and properties of the surround. Generally accepted as the cone body diameter plus one third to one half the width of the annulus surround. Drivers with wide roll surrounds can have significantly less Sd than conventional types with the same frame diameter. XmaxSpecified in millimeters mm. In the simplest form, subtract the height of the voice coil winding from the height of the magnetic gap, take the absolute value and divide by 2. Although easily determined it neglects magnetic and mechanical non-linearities and asymmetry, which are substantial for some drivers. This method better represents actual driver performance, but is more. PeSpecified in watts. Loudspeakers have complex behavior, and a single number is really unsatisfactory. There are two aspects of power handling, thermal and mechanical. The thermal capacity is related to coil temperature and the point where adhesives and coil insulation melt or change shape. The mechanical limit comes into play at low frequencies, where excursions are largest, and involves mechanical failure of some component. A speaker that can handle watts thermally at Hz, may sometimes be damaged by only a few watts at some very low frequency, like 10Hz. Power handling specifications are usually generated destructively, by long term industry standard noise signals flex for example that filter out low frequencies and test only the thermal capability of the driver is insta

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Iled. VdSpecified in litres L. The volume displaced by the cone, equal to the cone area Sd multiplied by Xmax. A particular value may be achieved in any of several ways. For instance, by having a small cone with a large Xmax, or a large cone with a small Xmax. Comparing Vd values will give an indication of the maximum output of a driver at low frequencies. High Xmax, small cone diameter drivers are likely to be inefficient, since much of the voice coil winding will be outside the magnetic gap at any one time and will therefore contribute little or nothing to cone motion. Likewise, large cone diameter, small Xmax drivers are likely to be more efficient as they will not need, and so may not have, long voice coils. SensitivityThe sound pressure, in dB, produced by a speaker in response to a specified stimulus. Usually this is specified at an input of 1 watt or 2. We are back online. Power has been restored, we will resume shipping on Monday. WE have begun responding to any open questions.