



SURFACE VEHICLE RECOMMENDED PRACTICE

J1096™

APR2021

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Superseding J1096 MAY2000

Measurement of Exterior Sound Levels for
Heavy Trucks Under Stationary Conditions

RATIONALE

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Documents

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1. Scope—This SAE Recommended Practice establishes the test procedure, environment, and instrumentation for determining the maximum exterior sound level of highway motor trucks and truck tractors over 4540 kg gross vehicle weight rating (GVWR) with governed engines under stationary vehicle conditions. The basic procedure involves a full throttle engine acceleration and a closed throttle deceleration with the engine inertia as the load.

2. References

2.1 Applicable Publications—The following publications form a part of the specification to the extent specified herein. Unless otherwise indicated, the latest revision of SAE publications shall apply.

2.1.1 SAE PUBLICATION—Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

SAE J184—Qualifying a Sound Data Acquisition System

2.1.2 ANSI PUBLICATIONS—Available from ANSI, 11 West 42nd Street, New York, NY 10036-8002.

ANSI S1.4-1983 and S1.4A-1985—Specification for Sound Level Meters

ANSI S1.40-1984—Specification for Acoustical Calibrators

2.1.3 ISO PUBLICATION—Available from ANSI, 11 West 42nd Street, New York, NY 10036-8002.

ISO 5130-1982—Acoustics—Measurements of noise emitted by stationary road vehicles—Survey method

2.1.4 DOT PUBLICATION—Available from The Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

DOT/BMCS Title 40, Part 325, Subpart E—Exterior Noise Regulation for Commercial Vehicles