



SURFACE VEHICLE RECOMMENDED PRACTICE

J1074

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Engine Sound Level Measurement Procedure

RATIONALE

This document has been determined to contain basic and stable technology which is not dynamic in nature.

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Foreword—This Reaffirmed Document has been changed only to reflect the new SAE Technical Standards Board Format. References were changed to Section 2. All other section numbers have changed accordingly.

1. Scope—This SAE Recommended Practice sets forth the equipment, environment, and test procedures to be used in measuring sound levels of engines. The purpose is to provide a uniform method of measuring the maximum acoustical radiation from the exterior surfaces of an engine under representative engine operating conditions. The measured sound levels will be useful in development of engines, comparison of engines, and installation of engines in various applications. The correlation of the measured engine sound levels to the various application sound levels will have to be developed.

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 FEB87—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 S1.11-1986—Octave, Half-Octave, and Third-Octave Band Filter Sets

2.1.3 OTHER PUBLICATION

Leo L. Beranek, "Noise and Vibration Control," New York: McGraw-Hill Book Co., 1971, Chap. 9.