



SURFACE VEHICLE STANDARD

J2567™**JUL2026**

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Measurement of Exhaust Sound Levels of Stationary Snowmobiles

RATIONALE

This document is converted from SAE Recommended Practice to SAE Standard.

SAE J2567 has been reaffirmed to comply with the SAE Five-Year Review policy.

A reaffirmed status is given to technical reports that have been reviewed by the technical committee and deemed to be current with no need for immediate revision. No changes have been made to this document as a result of this review.

1. SCOPE

This SAE Standard establishes the test procedure, environment, and instrumentation for determining the sound levels of snowmobiles in the stationary test mode. This test method is intended to provide an accurate measurement of exhaust and other engine noise and may be used to evaluate new and in-use snowmobiles to determine compliance with noise control regulations. Sound level measurements obtained with this test method are not intended as an engineering determination of overall machine noise. For this purpose, the use of SAE J192 is recommended.

2. REFERENCES

2.1 Applicable Documents

The following publications form a part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue of SAE publications shall apply.

2.1.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or +1 724-776-4970 (outside USA), www.sae.org.

SAE J33 Snowmobile Definitions and Nomenclature - General

SAE J192 Maximum Exterior Sound Level for Snowmobiles

2.1.2 ANSI Accredited Publications

Copies of these documents are available online at <http://webstore.ansi.org/>.

ANSI/ASA S1.4 Specification for Sound Level Meters

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Documents

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2.2 Related Publications

The following publications are provided for information purposes only and are not a required part of this SAE Technical Report.

2.2.1 SAE Publication

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or +1 724-776-4970 (outside USA), www.sae.org.

SAE J47 Maximum Sound Level Potential for Motorcycles

SAE J2825 Measurement of Exhaust Sound Pressure Levels of Stationary On-Highway Motorcycles

3. DEFINITIONS

3.1 FIELD CALIBRATION

Calibration of the sound level meter using an external sound level calibrator that will ensure the accuracy of the microphone and sound level meter.

3.2 INTERNAL CALIBRATION

Calibration of the sound level meter by an internal oscillator or other means. The sound level meter internal calibration may be used, provided that the overall response of the sound level meter and microphone are evaluated by an external acoustic calibrator meeting the requirements of 4.3, at the start and at the end of each test day.

3.3 LONGITUDINAL PLANE OF SYMMETRY

The plane perpendicular to the horizon with the snowmobile sitting on a level surface which is parallel to the normal direction of travel and equidistant between the skis. Refer to SAE J33.

3.4 SNOWMOBILE

A self-propelled vehicle intended for off-road travel primarily on snow, having a curb weight of not more than 450 kg (1000 pounds), driven by a track or tracks in contact with the snow, steered by a ski or skis in contact with the snow.

4. INSTRUMENTATION

The following instrumentation shall be used:

- 4.1 A sound level meter that conforms to Type 1, Type S1A, Type 2, or Type S2A requirements of ANSI/ASA S1.4.
- 4.2 A microphone of the free-field type.
- 4.3 A sound level calibrator with an accuracy of ± 0.2 dB.
- 4.4 A windscreen which does not affect microphone response more than ± 1.0 dB for the frequency range of 63 to 4000 Hz and ± 1.5 dB for frequencies ranging from 4000 to 10000 Hz.
- 4.5 An engine speed tachometer or other means of determining engine speed with a steady-state accuracy of $\pm 3\%$ at the prescribed test speed.