

	<b>SURFACE VEHICLE INFORMATION REPORT</b>	<b>SAE J2641</b>	<b>ISSUED NOV2007</b>
		Issued 2007-11	
Stationary Sound Testing of Snowmobiles, Procedure and Enforcement Issues			

## RATIONALE

Not applicable.

### 1. SCOPE

This SAE Information Report provides basic information about the issues surrounding the administration of stationary, infield sound testing of snowmobiles. The information provided herein is meant to enhance safety, improve the environment and promote uniform testing.

#### 1.1 Purpose

The purpose of this document is to identify problems in the administration and in safety of infield, snowmobile stationary sound testing, as described in SAE J2567.

### 2. REFERENCES

#### 2.1 Applicable Publications

The following publications form a part of this specification to the extent specified herein. 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 724-776-4970 (outside USA), [www.sae.org](http://www.sae.org).

- SAE J33            Snowmobile Definitions and Nomenclature—General
- SAE J192        Maximum Exterior Sound Level for Snowmobiles
- SAE J1038      Recommendations for Children's Snowmobiles
- SAE J1161      Operational Sound Level Measurement Procedure for Snowmobiles
- SAE J2567      Measurement of Exhaust Sound Levels of Stationary Snowmobiles

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## 2.2 Related Publications

The following publications are provided for information purposes and are not a required part of this document.

### 2.2.1 SSCC Publication

Available from the Snowmobile Safety Certification Committee, 1640 Haslett Road, Suite 170, Haslett, MI 48840.

SSCC-11 Snowmobile Safety and Certification Program (Feb '07)

### 2.2.2 Motorcycle Industry Council Publication

Available from Motorcycle Industry Council, Inc., 2 Jenner St., Suite 150, Irvine, CA 92718-3812.

Correlation of Off-Highway Motorcycle Sound Test Methods, EPA/SAE, OCT93

Evaluation of Stationary and Moving Motorcycle Noise Test Methods for Use in Proposed Regulations (McDonnell Douglas Astronautics Company West) Dec '75

## 3. DEFINITIONS

### 3.1 Snowmobile

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

#### 3.1.1 Class I – Competition Snowmobile

A snowmobile intended only for competition as stated and identified publicly by the manufacturer.

#### 3.1.2 Class II – Children's Snowmobile

A snowmobile intended only for use by children, as stated and identified publicly by the manufacturer. For a more detailed definition, see SAE J1038.

## 4. TECHNICAL REQUIREMENTS

### 4.1 Personnel

The administration of an infield, stationary sound measurement, as in SAE J2567, would require a minimum of two persons with the possibility of a third, in some instances. One person will be required to straddle the machine and operate the speed control while simultaneously holding the brake to maintain the position of the unit relative to the microphone. The second person will be required for the reading and recording of the sound level measurement. A third person may be required to ascertain the engine revolutions by means of an external tachometer on those units not equipped with an engine revolution counter. Other personnel may be required to block or guide traffic if this procedure is carried out trailside or in congested areas.

### 4.2 Training

The person or persons operating the sound meter would need to be trained in its' operation/ calibration so as not to obtain improper readings, lessening the effectiveness of the stationary sound test procedure in enforcement. The person straddling the machine should have a background in snowmobile operation and a working familiarity with the controls and systems of the machines reasonably expected to be encountered in use on the trail system. If the use of an external tachometer is necessary, one or more persons of the testing group would need to have been familiarized with its' operation prior to performing any sound measurement procedures.