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METHODS OF MEASUREMENT OF THE

SOUND EMITTED BY MOTOR VEHICLES

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THE FOLLOWING SCIENTIFIC, INDUSTRIAL AND GOVERNMENTAL ORGANIZATIONS and departments were officially represented on the committee entrusted with the preparation of this standard:

Australian Acoustical Society

Australian and New Zealand Pulp and Paper Industry Technical Association

Australian Institute of Health Surveyors

Australian Planning Institute

Bureau of Steel Manufacturers of Australia

Confederation of Australian Industry

Council of the City of Sydney

CSIRO, Division of Building Research

CSIRO, Division of Mathematics and Statistics

Department of Defence

Department of Environment, South Australia

Electricity Supply Association of Australia

Experimental Building Station

Metal Trades Industry Association of Australia

National Acoustic Laboratories

National Association of Australian State Road Authorities

Public Works Department, W.A.

Royal Australian Institute of Architects

Society of Automotive Engineers—Australasia

State Departments of Public Health

Universities

Victoria Police

This standard, prepared by Committee AK/5, Community Noise, was approved on behalf of the Council of the Standards Association of Australia on 5 February 1979, and was published on 1 May 1979.

To keep abreast of progress in industry, Australian standards are regularly reviewed. Suggestions for improvements to published standards, addressed to the head office of the Association, are welcomed.

This standard was issued in draft form for public review as DR 75075.

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AUSTRALIAN STANDARD

METHODS OF MEASUREMENT OF THE SOUND EMITTED BY MOTOR VEHICLES

AS 2240—1979

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PREFACE

This standard was prepared by the Association's Committee on Community Noise.

Road traffic is the chief community noise source at the majority of urban sites and it is necessary to restrict the noise emission of each individual vehicle if the noise of the traffic stream is to be controlled. This standard is intended for reference by manufacturers, users, and regulatory authorities concerned with the motor vehicle industry, in relation to long-term guidelines for the control of noise.

The general method of assessment described involves the measurement of the sound level in dB(A), which from experience gives a good correlation with annoyance.

The test methods described in this standard are designed to determine the sound emission potential of a vehicle in typical urban traffic situations. It has been found from experience that the rank ordering of the measured sound levels emitted by different vehicles varies according to the vehicle operating condition specified in the test method; thus the standard describes the test procedure for six different operating conditions, as follows:

(a) Moving vehicle acceleration test.

(b) Stationary vehicle test.

(c) Acceleration from a standing start test.

(d) Low speed drive-by test.

(e) High speed drive-by test.

(f) Body noise test.

It should be noted that certain of the tests prescribed herein are similar to but not identical with tests prescribed by various regulatory authorities. Thus it is emphasized that most regulatory authorities do not intend to adopt the SAA tests in regulations although the possibility of some government authorities using them in a regulatory or quasi-regulatory way cannot be ruled out. The SAA tests will not replace those noise tests required of vehicle manufacturers to demonstrate compliance with Australian Design Rules. They are intended primarily as a means of acquiring data for the possible future development of comprehensive motor vehicle test methods. Thus the methods are all to be considered as baseline data acquisition tools.

It is therefore requested that data obtained using these test methods be submitted to the Standards Association of Australia for examination by the relevant subcommittee of Committee AK/5, Community Noise. Such data will be used in the preparation of a revised edition of this standard.

This standard does not deal with the measurement of noise within motor vehicles. Preparation of a standard method of measurement of noise inside vehicles is under consideration.

The standard requires reference to the following documents:

AS 1259	Sound Level Meters Part 2—Type 2, Precision
AS 1633	Glossary of Acoustic Terms
SAA MP..	The Use of Sound Measuring Equipment Part 1—Portable Sound Level Meters*

*In course of preparation.

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