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Specification for

Replacement motor cycle and moped exhaust systems

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Automobile Standards Policy Committee (AUE/-) to Technical Committee AUE/9, upon which the following bodies were represented:

- Automobile Association
- Consumer Policy Committee of BSI
- Department of Trade and Industry (Consumer Safety Unit, C A Division)
- Department of Transport
- Garage Equipment Association
- Institute of Trading Standards Administration
- Motor Agents Association Ltd.
- Motor Cycle Industry's Association of Great Britain Ltd.
- Royal Automobile Club
- Society of Motor Manufacturers and Traders Ltd.

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Foreword

This British Standard has been prepared under the direction of the Automobile Standards Policy Committee with the assistance of the Department of Transport. It supersedes BS AU 193:1983, which is withdrawn. This revision reflects the Department of Transport's adoption of the directive 78/1015/EEC, amended by the directives 87/56/EEC and 89/235/EEC, on noise limits and replacement silencers.

This British Standard differs from the previous edition in that the following items have been included:

- a) definitions of motor cycle of type C (see **2.3**) and moped of type C (see **2.6**);
- b) maximum noise levels for type C machines (see **5.3**);
- c) a method to condition exhaust systems by pulsation (see **B.3**).

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 8, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

1 Scope

This British Standard specifies requirements for the silencing properties of replacement exhaust systems or parts thereof for installation on motor cycles and mopeds. It describes methods for measuring the noise emitted by motor cycles and mopeds fitted with these systems and specifies requirements for the durability of fibrous noise absorbing materials where these are used to meet the noise limits. It also includes requirements for marking these exhaust systems and their packaging and for the supply of installation literature.

NOTE The titles of the publications referred to in this standard are listed on the inside back cover.

2 Definitions

For the purposes of this British Standard the following definitions apply.

2.1

motor cycle of type A

a mechanically propelled vehicle, not being an invalid carriage, with less than four wheels and an unladen mass that does not exceed 400 kg, first used between 1 April 1970 and 31 March 1983

2.2

motor cycle of type B

a two-wheeled vehicle, with or without sidecar, fitted with an engine intended for use on the road and having a maximum design speed of more than 50 km/h, first used between 1 April 1983 and 31 March 1991

2.3

motor cycle of type C

a two-wheeled vehicle, with or without sidecar, fitted with an engine intended for use on the road and having a maximum design speed of more than 50 km/h, first used on or after 1 April 1991

2.4

moped of type A

a two-wheeled or three-wheeled vehicle first used between 1 April 1970 and 31 March 1983 that has a maximum design speed not exceeding 50 km/h, a kerb-side mass not exceeding 250 kg and, if propelled by an internal combustion engine, an engine capacity not exceeding 50 cm³

2.5

moped of type B

a two-wheeled or three-wheeled vehicle first used between 1 April 1983 and 31 March 1991 that has a maximum design speed not exceeding 50 km/h, a kerb-side mass not exceeding 250 kg and, if propelled by an internal combustion engine, an engine capacity not exceeding 50 cm³

2.6

moped of type C

a two-wheeled or three-wheeled vehicle first used on or after 1 April 1991 that has a maximum design speed not exceeding 50 km/h, a kerb-side mass not exceeding 250 kg and, if propelled by an internal combustion engine, an engine capacity not exceeding 50 cm³

2.7

exhaust system

a complete set of components through which the exhaust gases escape from the engine unit, including those that are necessary to limit the noise caused by the escape of these gases

2.8

fibrous materials

materials of a fibrous nature that are placed within the exhaust system to limit the noise caused by the escape of the exhaust gases

2.9

maximum rated power speed (S)

the engine speed at which the motor cycle or moped develops maximum power

3 General

Exhaust systems shall be tamper-resistant so far as may be compatible with clearly defined maintenance and installation requirements.

4 Fibrous material

4.1 Fibrous material shall not be used in the manufacture of exhaust systems unless it is asbestos-free and complies with **4.2** or **4.3**. In addition, means shall be provided to keep the fibrous material in place.

4.2 The exhaust gases shall not be directed through the fibrous material. The fibrous material shall have a durability commensurate with the exhaust system and shall comply with Appendix A.

4.3 Exhaust systems containing fibrous absorbent material shall be prepared for testing in accordance with Appendix B, or by removing the fibrous material from the exhaust system.

5 Permissible noise level

5.1 The maximum noise level for motor cycles or mopeds of type A, when tested in accordance with **C.4.2.2**, shall be as given in Table 1.