



# **Vehicle Standard (Australian Design Rule 83/00 — External Noise) 2005**

**as amended**

made under section 7(1) of the

*Motor Vehicle Standards Act 1989*

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This compilation was prepared on 23 June 2008  
taking into account amendments up to *Vehicle Standard (Australian Design  
Rule 83/00 — External Noise) 2005 Amendment 1*

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### 0.1 NAME OF STANDARD [see Note 1]

0.1.1 This Standard is the *Vehicle Standard (Australian Design Rule 83/00 – External Noise) 2005*.

0.1.2 This Standard may also be cited as ADR 83/00.

### 0.2 COMMENCEMENT [see Note 1]

0.2.1 This Standard commences on the day after it is registered.

### 0.3 REPEAL

0.3.1 This Standard repeals each vehicle standard with the name ADR 83/00, and each amendment of such a standard, that is:

- (a) made under section 7 of the *Motor Vehicles Standard Act 1989*; and
- (b) in force at the commencement of this Standard.

0.3.2 This Standard also repeals each instrument made under section 7 of the *Motor Vehicles Standard Act 1989* that creates or amends a vehicle standard with the name ADR 83/00, if there are no other vehicle standards created by that instrument that are still in force at the commencement of this Standard.

## 1 SCOPE

1.1 This vehicle standard defines limits on external noise generated by motor vehicles, motor cycles and mopeds in order to limit the contribution of motor traffic to community noise.

## **2 APPLICABILITY AND IMPLEMENTATION<sup>1</sup>**

- 2.1 This vehicle standard applies to all L, M and N category vehicles as provided in clauses 2.2 and 2.3.
- 2.2 This vehicle standard applies to M and N category vehicles:
  - 2.2.1 from 1 January 2005 in relation to:
    - 2.2.1 A new model vehicles produced on or after 1 January 2005 with an engine that operates on petrol and
    - 2.2.1B new model vehicles produced on or after 1 January 2005 with an engine that operates on liquefied petroleum gas or natural gas and with a GVM less than or equal to 3.5 tonnes;
  - 2.2.2 from 1 January 2006 in relation to:
    - 2.2.2 A new model vehicles produced on or after 1 January 2006 with an engine that operates on diesel and with a GVM less than or equal to 3.5 tonnes;
  - 2.2.3 from 1 January 2007 in relation to:
    - 2.2.3A new model vehicles produced on or after 1 January 2007 with an engine that operates on diesel, liquefied petroleum gas or natural gas and with a GVM greater than 3.5 tonnes;
    - 2.2.3B vehicles produced on or after 1 January 2007 with an engine that operates on petrol other than new model vehicles referred to in clause 2.2.1; and
    - 2.2.3C vehicles produced on or after 1 January 2007 with an engine that operates on diesel, liquefied petroleum gas or natural gas and with a GVM less than or equal to 3.5 tonnes, other than new model vehicles referred to in clauses 2.2.1 and 2.2.2;
  - 2.2.4 from 29 February 2008 in relation to vehicles produced on or after 29 February 2008 with an engine that operates on diesel, liquefied petroleum gas or natural gas and with a GVM greater than 3.5 tonnes, other than new model vehicles referred to in clause 2.2.3A.
- 2.3 This vehicle standard applies to L category vehicles:
  - 2.3.1 from 1 January 2005 in relation to new model vehicles produced on or after 1 January 2005;
  - 2.3.2 from 1 January 2006 in relation to vehicles produced on or after 1 January 2006 other than new model vehicles referred to in clause 2.3.1.
- 2.4 For the purposes of:
  - 2.4.1 clauses 2.2.1 and 2.3.1, a “new model vehicle” is a vehicle of a model first produced with a date of manufacture on or after 1 January 2005;
  - 2.4.2 clause 2.2.2, a “new model vehicle” is a vehicle of a model first produced with a date of manufacture on or after 1 January 2006;

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<sup>1</sup> Note: this Standard applies from the day specified in clause 1.1. However, this Standard is a remaking of the vehicle standard with the name ADR 83/00 that was first gazetted on 21 March 2003. Clause 2.2 provides a summary of the application of all of the versions of the vehicle standard with the name ADR 83/00.

- 2.4.3 clause 2.2.3, a “new model vehicle” is a vehicle of a model first produced with a date of manufacture on or after 1 January 2007.

### **3 DEFINITIONS**

- 3.1 For the purposes of clause 2.4, “date of manufacture” means the date the vehicle is available in Australia in a condition which will enable an identification plate to be lawfully affixed to the vehicle.

### **4 REQUIREMENTS**

- 4.1 M and N category vehicles complying with the technical requirements of Appendix A, as varied by part 5.1 of this vehicle standard, shall be accepted as complying with this vehicle standard.
- 4.2 LC, LD and LE category vehicles complying with the technical requirements of Appendix B, as varied by part 5.2 of this vehicle standard, shall be accepted as complying with this vehicle standard.
- 4.3 LA and LB category vehicles complying with the technical requirements of Appendix C, as varied by part 5.3 of this vehicle standard, shall be accepted as complying with this vehicle standard.

### **5 EXEMPTIONS AND ALTERNATIVE PROCEDURES**

#### **5.1 M and N category vehicles**

- 5.1.1 The following provisions of Appendix A are not applicable:

Section 3      Application for Approval

Section 4      Markings

Section 5      Approval

Section 7      Modification and Extension of Approval of a Vehicle Type

Section 8      Conformity of Production

Section 9      Penalties for Non-Conformity of Production

Section 10     Production Definitely Discontinued

Section 11     Transitional Provisions

Section 12     Names and Addresses of Technical Services Responsible for Conducting Approval Tests and of Administrative Departments

Annex 1       Communication

Annex 2       Arrangements of the Approval Mark

- 5.1.2 The sound level limit for M category vehicles with a GVM greater than 3.5 tonnes and an engine power of 150 kW or above is amended as follows:

- 5.1.2A Paragraph 6.2.2.1.2.2 of Appendix A is amended to read ‘Vehicle categories: with an engine power of 150 kW (ECE) or above but less than 320 kW (ECE) Limit values [dB(A)]: 80’.
- 5.1.2B A new paragraph 6.2.2.1.2.3 that reads ‘Vehicle categories: with an engine power of 320 kW (ECE) or above Limit values [dB(A)]: 83’ is inserted after paragraph 6.2.2.1.2.2 of Appendix A.
- 5.1.3 The sound level limit for N category vehicles with a GVM greater than 3.5 tonnes and an engine power of 150 kW or above is amended as follows:
- 5.1.3A Paragraph 6.2.2.1.4.3 of Appendix A is amended to read ‘Vehicle categories: with an engine power of 150 kW (ECE) or above but less than 320 kW (ECE) Limit values [dB(A)]:80’.
- 5.1.3B A new paragraph 6.2.2.1.4.4 that reads ‘Vehicle categories: with an engine power of 320 kW (ECE) or above Limit values [dB(A)]: 83’ is inserted after paragraph 6.2.2.1.4.3 of Appendix A.
- 5.1.4 The following site specifications for measurement of noise emitted by M and N category vehicles in motion are deemed equivalent to the specifications in paragraph 2.1.1 of Annex 3 to Appendix A and in Annex 8 to Appendix A:
- 5.1.4A The test site shall take the form of an open space of 25m radius having a central part of at least 10m radius which is practically level, consisting of concrete, asphalt or similar material and not covered with powdery snow, tall grass, loose soil, ashes or the like. The test site surface shall be dry and such as not to cause excessive tyre noise. Whilst the test is in progress no person shall be in the measurement area except the observer and the driver. Their presence must have no influence on the meter reading.
- 5.1.5 The following site specifications for measurement of noise emitted by stationary M and N category vehicles are deemed equivalent to the specifications in paragraph 3.2.3 of Annex 3 to Appendix A and in Annex 8 to Appendix A:
- 5.1.5A The test site shall take the form of an open space where a rectangle with sides no closer than 3m from the extremities of the vehicle can be described. The test site surface should be dry and practically level, consisting of concrete, asphalt or similar material and not covered with powdery snow, tall grass, loose soil, ashes or the like. Whilst testing is in progress no person other than any occupants of the vehicle shall be within 1m of the microphone in use. No person or object other than the person conducting the test and an observer or the objects necessary for the performance of the test shall be within 3m of the microphone in use.
- 5.1.6 The definition for ‘S’ in paragraph 3.1.2.1 of Annex 3 to Appendix A is amended to read ‘S: engine rotation speed at which maximum power is developed’.
- 5.1.7 Paragraph 3.2.5.3.2.1 of Annex 3 to Appendix A is amended to read ‘The engine is operated at a constant speed having the following value:  $\frac{3}{4}$  S for both controlled ignition engines and for diesel engines. If the vehicle cannot reach the engine speed  $\frac{3}{4}$  S, the target engine speed shall be 5 per cent below the maximum possible engine speed for that stationary test’.
- 5.1.8 Paragraph 1 of Annex 5 to Appendix A is amended by inserting the words ‘of Annex 3’ after the words ‘paragraphs 3.1 and 3.2’.

## **5.2 LC, LD and LE category vehicles**

### **5.2.1 The following provisions of Appendix B are not applicable:**

Section 3	Application for Approval
Section 5	Approval
Section 7	Modification and Extension of the Approval of the Motorcycle Type or of the Type of Exhaust or Silencing System(s)
Section 8	Conformity of Production
Section 9	Penalties for Non-Conformity of Production
Section 10	Production Permanently Discontinued
Section 11	Names and Addresses of Technical Services Responsible for Conducting Approval Tests and of Administrative Departments
Section 12	Transitional Provisions
Annex 1	Communication
Annex 2	Arrangements of the Approval Marks

5.2.2 Paragraph 4.1.3 of Appendix B is amended by inserting 'if applicable' before the words 'the approval mark'.

5.2.3 Paragraph 4.1.4 of Appendix B is amended by omitting 'All original silencers must be bear' and inserting 'All original silencers must bear, if applicable,'.

5.2.4 Paragraph 4.1.5 of Appendix B is amended by inserting ',if applicable,' after the words 'the 'E' mark'.

5.2.5 The following site specifications for measurement of noise emitted by LC, LD and LE category vehicles in motion are deemed equivalent to the specifications in paragraph 1.3.2 of Annex 3 to Appendix B and in Annex 4 to Appendix B:

5.2.5A The test site shall take the form of an open space of 50m radius having a central part of at least 10m radius which is practically level, consisting of concrete, asphalt or similar material and not covered with powdery snow, tall grass, loose soil, ashes or the like. The test site surface shall be dry and such as not to cause excessive tyre noise. Whilst the test is in progress no person shall stand in the measurement area, except the observer and the rider. Their presence must have no influence on the meter reading.

## **5.3 LA and LB category vehicles**

### **5.3.1 The following provisions of Appendix C are not applicable:**

Section 3	Application for Approval
Section 5	Approval

- |            |  |
|------------|--|
| Section 7  | Modifications and Extension of the Approval of the Moped Type or of the Type of Exhaust or Silencing System(s)         |
| Section 8  | Conformity of Production   |
| Section 9  | Penalties for Non-Conformity of Production   |
| Section 10 | Transitional Provisions  |
| Section 11 | Production Definitely Discontinued   |
| Section 12 | Names and Addresses of Technical Services Responsible for Conducting Approval Tests, and of Administrative Departments |
| Annex 1    | Communication  |
| Annex 2    | Arrangements of Approval Marks   |
- 5.3.2 The following site specifications for measurement of noise emitted by LA and LB category vehicles in motion are deemed equivalent to the specifications in paragraph 2.1 of Annex 3 to Appendix C and in Annex 5 to Appendix C:
- 5.3.2A The test site shall take the form of an open space of 50m radius having a central part of at least 10m radius which is practically level, consisting of concrete, asphalt or similar material and not covered with powdery snow, tall grass, loose soil, ashes or the like. The test site surface shall be dry and such as not to cause excessive tyre noise. Whilst the test is in progress no person shall stand in the measurement area, except the observer and the rider. Their presence must have no influence on the meter reading.
- 5.3.3 Paragraph 5.2.3 of Annex 3 to Appendix C is amended by inserting ‘if applicable,’ after the words ‘the “E” mark’.

## **6 ALTERNATIVE STANDARDS**

- 6.1 For M and N category vehicles, the technical requirements of United Nations Economic Commission for Europe Regulation No. 51 Uniform Provisions Concerning the Approval of Motor Vehicles Having at Least Four Wheels with Regard to Their Noise Emissions, incorporating the 02 series of Amendments, up to and including corrigendum 1 to supplement 3 to the 02 series, are deemed to be equivalent to the technical requirements of this vehicle standard.

- 6.2 For LC, LD and LE category vehicles, the technical requirements of United Nations Economic Commission for Europe Regulation No. 41 Uniform Provisions Concerning the Approval of Motor Cycles with Regard to Noise, incorporating the 03 series of Amendments, are deemed to be equivalent to the technical requirements of this vehicle standard.
- 6.3 For LA and LB category vehicles, the technical requirements of United Nations Economic Commission for Europe Regulation No. 63 Uniform Provisions Concerning the Approval of Two-Wheeled Mopeds with Regard to Noise, incorporating the 01 series of Amendments, up to and including corrigendum 2 to the 01 series, are deemed to be equivalent to the technical requirements of this vehicle standard.



# Notes to the *Vehicle Standard (Australian Design Rule 83/00 — External Noise) 2005*

## Note 1

The *Vehicle Standard (Australian Design Rule 83/00 — External Noise) 2005* (in force under section 7(1) of the *Motor Vehicle Standards Act 1989*) as shown in this compilation is amended as indicated in the Tables below.

## Table of Instruments

Title	Date of FRLI Registration	Date of commencement	Application, saving or transitional provisions
<i>Vehicle Standard (Australian Design Rule 83/00 — External Noise) 2005</i>	15 Nov 2005 (see F2005L03523)	16 Nov 2005	
<i>Vehicle Standard (Australian Design Rule 83/00 — External Noise) 2005 Amendment 1</i>	21 Feb 2008 (see F2008L00571)	22 Feb 2008	—

## Table of Amendments

ad. = added or inserted    am. = amended    rep. = repealed    rs. = repealed and substituted

Provision affected	How affected
Clause 2.2.4.....	rs. F2008L00571