

Issued by the

**Administrator of Vehicle Standards**

in consultation with the

**Australian Motor Vehicle Certification Board**

comprising Commonwealth, State and Territory representatives



Australian Government

Department of Infrastructure and Regional Development

## **CIRCULAR 30/00-1-1**

### **CERTIFICATION PROCEDURES FOR AUSTRALIAN DESIGN RULE NO. 30/00**

#### **DIESEL ENGINE EXHAUST SMOKE EMISSIONS**

##### **APPROVAL OF ENGINE AS A COMPONENT**

1. The Administrator of Vehicle Standards (the Administrator) has agreed to approve diesel engines for the purposes of ADR 30/00, when this is desired by an engine manufacturer. Such approvals will be in the form of Compliance Mark Approvals. Application procedures for Compliance Mark Approval are described below,
2. In order to demonstrate compliance with ADR 30/00, it will be necessary for the engine manufacturer to either:
  - a. carry out testing in accordance with Clauses 30.3 and 30.4 of the Rule and to submit the necessary data to the Administrator;
  - or
  - b. provide the necessary evidence that the engine complies with one of the standards specified in Clauses 30.5.1.1 and 30.5.1.2 of the Rule.
  - c. provide the necessary evidence that a vehicle fitted with the engine complies with Clause 30.5.1.3 (ECE Regulation 24) together with acceptable evidence of the inlet and exhaust parameters at which the engine was tested.
3. When the Administrator is satisfied that the appropriate requirements have been complied with, the engine manufacturer will be authorised to affix an approved Compliance Mark to all engines for which approval has been granted.
4. The Compliance Mark will be the label which is required to be affixed to the engine in accordance with Clause 30.2.3 of the Rule. The label format for engines approved in accordance with (a) above is shown at Attachment 1, and the label format for engines approved in accordance with (b) or (c) above is shown at Attachment 2. Alternative formats which some manufacturers may find compatible with their installation requirements are also shown at Attachments 1 and 2.
5. The preferred sizes of the labels are 100 mm by 40 mm and 170 mm by 30 mm respectively. Minor variations in size are permissible provided that legibility and format are essentially preserved. The Administrator may allow the inclusion of additional information where this is necessary for adequate identification of the engine.

Notwithstanding these permitted variations, Administrator approval of the label is required in every instance.

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### **APPROVAL OF VEHICLE AS A WHOLE**

6. A vehicle manufacturer can obtain ADR 30/00 approval for a vehicle as a whole. A vehicle manufacturer wishing to obtain Compliance Plate Approval for a vehicle incorporating a diesel engine should submit a Summary of Evidence form SE 30/00 including one of the types of evidence described below (and referencing it on the vehicle's Form CA Annex A as described in Circular 0-3-4; paragraph 2.2). Compliance may be established by:
  - a. testing in accordance with the procedures specified in Clause 30.3 and 30.4 of the Rule;or
  - b. providing, inter alia, the necessary evidence that the engine complies with any of the Standards specified in Clause 30.5.1 of the Rule;or
  - c. providing, inter alia, the necessary evidence that the engine is one for which ADR 30/00 Compliance Mark Approval has been given, in accordance with the preceding section of this Circular.
7. In cases where option (b) or (c) is selected, it will be necessary for the vehicle manufacturer to demonstrate to the Administrator that:
  - a. the inlet and exhaust parameter restrictions specified in the evidence submitted to the Administrator in the case of the US EPA and BS Standards specified in Clause 30.5.1 and shown on the engine label in the case of option (c) are not exceeded for the engine as installed in the vehicle,and
  - b. no modifications have been incorporated which would affect compliance with the relevant Standard in the case of option 6 (b) or the validity of the original Compliance Mark Approval of the engine in the case of option 6 (c).
8. In the case of a vehicle as a whole which complies with ECE Regulation 24, it will not be necessary to measure inlet and exhaust parameter restrictions as the presence of a validly affixed 'E' mark on the vehicle signifies that these parameters are acceptable to the Approving Authority. However, it will be necessary to provide the Administrator with an assurance that the vehicle has not been modified in such a manner to affect the validity of the original approval.
9. In cases where option 6 (a) or 6 (b) is selected, the ADR 30/00 engine label affixed in accordance with the requirements of Clause 30.2.3 of the Rule shall indicate that the engine was manufactured to comply with ADR 30/00. The month and year of the engine's manufacture shall also be shown in uncoded form, eg 7/84. No size or format is prescribed, but each label is subject to acceptance by the Administrator. It should be noted that the statement on the label pertaining to compliance with ADR 30/00 should be without abbreviations, except for the commonly used abbreviation 'ADR'.

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### **APPLICATION PROCEDURES FOR COMPLIANCE MARK APPROVAL**

10. Engine manufacturers will be required to make a separate application to the Administrator in respect of each particular model of engine for which approval is sought. A typical example of a Compliance Mark Approval is shown at Attachment 3. An engine manufacturer wishing to obtain a Compliance Mark Approval for a diesel engine should apply using Form CM30<sup>1</sup> - Original / Amending Application for Compliance Mark Approval - Diesel Engine, and attach the information on the engine test required by Form<sup>1</sup> SE30/00 - Summary of Evidence Report - ADR30/00, (Parts 1, 2, 3 and 4 or 6).
11. Should it be necessary to provide supplementary information, this documentation should be forwarded at the earliest opportunity and be accompanied by Form<sup>1</sup> AM 30 - Additional Documentation for Compliance Mark Approval - Diesel Engine (Supplementary submission). Use of this form will ensure identification of the accompanying documentation with the original application to which it related.

### **TRANSITION ARRANGEMENTS**

12. The Motor Vehicle Standards Act 1989 and Regulations necessitate a new format of compliance mark label as compliance mark labels are now affixed to vehicles with the approval of the Administrator.
13. The Regulations make provision for approvals granted by the Australian Motor Vehicle Certification Board as remaining valid under the Motor Vehicle Standards Act. In addition compliance mark labels on which appear the words "Australian Motor Vehicle Certification Board" are regarded as compliance mark labels fitted under the Act.
14. Applications for, Compliance Mark Approval approved after 1 July 1994 must be based on the new labels. However, manufacturers may continue to use existing labels until 1 July 1994, after which date the new labels must be used.
15. In the case of current engines for which a label has been approved, the manufacturer may affix a Motor Vehicle Standards compliance mark label based on the labels shown in Attachments 1 and 2 without submitting an amending application for Compliance Mark Approval provided that:
  - a. the only change to the label is in the addition of either the words "THE MOTOR VEHICLE STANDARDS ACT 1989, ADR 30/00" (for labels based on Attachment 1), or, "THE MOTOR VEHICLE STANDARDS ACT 1989, ADR 30/00 CLAUSE 30.5.1.1" (or 30.5.1.2 or 30.5.1.3 as applicable, for labels based on Attachment 2) in the first 2 lines and the deletion of the words "AUSTRALIAN MOTOR VEHICLE CERTIFICATION BOARD" in the last line;and
  - b. a facsimile of the Motor Vehicle Standards Act compliance mark label is included on the very first occasion an amending application is lodged for each such engine.

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<sup>1</sup>Copies of these forms are available from the Administrator of Vehicle Standards, PO Box 594, CANBERRA ACT 2601.

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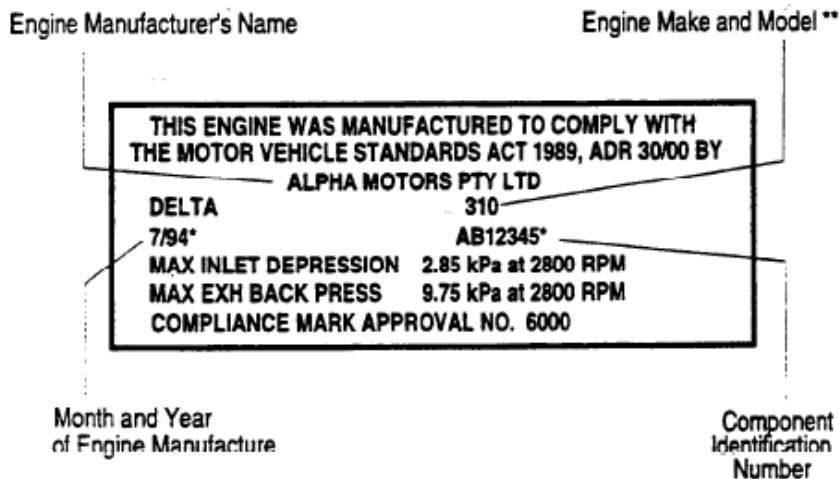


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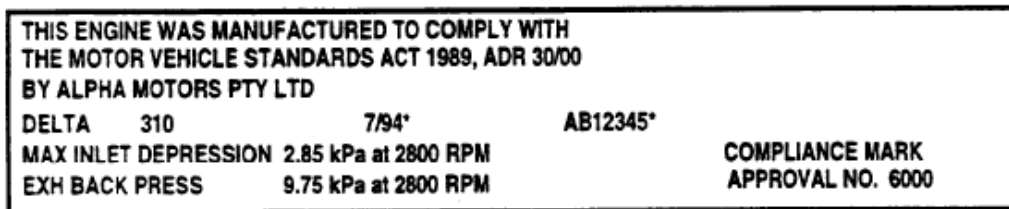
Department of Infrastructure and Regional Development

**Attachment 1**

**ADR 30/00 LABEL FOR APPROVAL OF AN ENGINE AS A COMPONENT WHEN APPROVAL IS GRANTED ON THE BASIS OF TESTING CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF CLAUSES 30.3 AND 30.4**



**ALTERNATIVE FORMAT**



- Variable information
- \*\* The normal sales descriptions for Engine Make and Model should be used, and abbreviations should not be used.

- Material : Metal
- Colour: Other than red, green, blue or yellow
- Fixing: Rivetting or welding (unless otherwise approved by the Administrator)
- Minimum Letter Size: 2.3 mm (embossed or impressed embossed, unless otherwise approved by the Administrator).

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## Attachment 2

### ADR 30/00 LABEL FOR APPROVAL OF AN ENGINE AS A COMPONENT WHEN APPROVAL IS GRANTED ON THE BASIS OF COMPLIANCE WITH EITHER CLAUSE 30.5.1.1, 30.5.1.2 OR 30.5.1.3

#### ADR 30/00 LABEL FOR APPROVAL OF AN ENGINE AS A COMPONENT WHEN APPROVAL IS GRANTED ON THE BASIS OF COMPLIANCE WITH EITHER CLAUSE 30.5.1.1, 30.5.1.2 or 30.5.1.3

Engine Manufacturer's Name	Engine Make and Model **										
<div style="border: 1px solid black; padding: 5px;"><p>THIS ENGINE WAS MANUFACTURED TO COMPLY WITH THE MOTOR VEHICLE STANDARDS ACT 1989, ADR 30/00 CLAUSE 30.5.1.1# BY ALPHA MOTORS PTY LTD</p><table border="0"><tr><td>DELTA</td><td>310</td></tr><tr><td>7/94*</td><td>AB12345*</td></tr><tr><td>MAX INLET DEPRESSION</td><td>2.85 kPa at 2800 RPM</td></tr><tr><td>MAX EXH BACK PRESS</td><td>9.75 kPa at 2800 RPM</td></tr><tr><td colspan="2">COMPLIANCE MARK APPROVAL NO. 6000</td></tr></table></div>		DELTA	310	7/94*	AB12345*	MAX INLET DEPRESSION	2.85 kPa at 2800 RPM	MAX EXH BACK PRESS	9.75 kPa at 2800 RPM	COMPLIANCE MARK APPROVAL NO. 6000	
DELTA	310										
7/94*	AB12345*										
MAX INLET DEPRESSION	2.85 kPa at 2800 RPM										
MAX EXH BACK PRESS	9.75 kPa at 2800 RPM										
COMPLIANCE MARK APPROVAL NO. 6000											
Month and Year of Engine Manufacture	Component Identification Number										

#### ALTERNATIVE FORMAT

THIS ENGINE WAS MANUFACTURED TO COMPLY WITH  
THE MOTOR VEHICLE STANDARDS ACT 1989, ADR 30/00 CLAUSE 30.5.1.1#  
BY ALPHA MOTORS PTY LTD

DELTA	310	7/94*	AB12345*	COMPLIANCE MARK APPROVAL NO. 6000
MAX INLET DEPRESSION	2.85 kPa at 2800 RPM			
EXH BACK PRESS	9.75 kPa at 2800 RPM			

# CLAUSE 30.5.1.1 FOR US EPA APPROVED ENGINES, or  
CLAUSE 30.5.1.2 FOR BS AU141a:1971 APPROVED ENGINES, or  
CLAUSE 30.5.1.3 FOR ECE R24 APPROVED ENGINES

\* Variable information

\*\* The normal sales descriptions for Engine Make and Model should be used, and abbreviations should not be used.

Material :	Metal
Colour:	Other than red, green, blue or yellow
Fixing:	Rivetting or welding (unless otherwise approved by the Administrator)
Minimum Letter Size:	2.3 mm (embossed or impressed embossed, unless otherwise approved by the Administrator).

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### Attachment 3

## COMPLIANCE MARK APPROVAL



Federal Office of Road Safety

## Compliance Mark Approval

The Administrator for Motor Vehicle Standards (the Administrator) approves the affixing by the Company named and described in Schedule 2 (the Company) to a Component of the kind described in Schedule 3 (the specified component) of a Compliance Mark that conforms to the specimen set out in Schedule 6 (the approved Compliance Mark)

In this approval, a reference to an Australian Design Rule is a reference to a rule cited in the National Standard determinations, made under Section 7 of the Motor Vehicle Standards Act, together with that rule's distinguishing number.

This approval is subject to the following conditions:

1. The Company shall not affix the approved Compliance mark to a component that is not the specified component.
2. The Company shall not without the prior approval of the Administrator affix the approved Compliance Mark to a component that is in any way different from the component described in the final form of the application for this approval. 'The application' includes reports and other documents relating to the application.
3. This Approval remains valid only whilst the requirements of other approvals or standards which are mentioned in Schedule 5 continue to be met.
4. The Company shall by detailed quality control and test ensure continuing compliance with Australian Design Rules mentioned in Schedule 1.
5. The Company shall maintain records of detailed quality control and test documentation.
6. The Company shall carry out, to the satisfaction of the Administrator, any test required by the Administrator, for the purposes of demonstrating compliance with Australian Design Rules as set out in Schedule 1.
7. The Company shall not affix the approved Compliance Mark to a component manufactured, on or after the expiry date specified in Schedule 4.
8. The approved Compliance Mark shall be affixed to the component to which it relates in the position specified as Mark Location in Schedule 4.
9. The Component Identification Number shall be in the position specified as C.I.N. Location in Schedule 4.
10. On cessation of production of the specified component, the company shall notify the Administrator of the date of manufacture and CIN of the last specified component manufactured.

### Schedule 1

#### Australian Design Rules

No. 30/00. Diesel Engines Exhaust Smoke Emissions (December 1988)