

Australian Standard<sup>®</sup>

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**Automotive repairs—Terminology**

**Part 5: Engine**

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The following interests are represented on Committee CS/78:

Australian Automobile Association  
Australian Automotive Aftermarket Association  
Australian Consumers Association  
Australian Federation of Consumer Organizations  
Australian Transmission Rebuilders Association  
Department of Consumer Affairs, N.S.W.  
Institute of Automotive Mechanical Engineers  
Motor Trades Association of Australia  
Motor Vehicle Repair Industry Council  
Society of Automotive Engineers—Australia  
Victorian Automotive Chamber of Commerce

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## PREFACE

This Standard was prepared by the Standards Australia Committee on Automotive Repairs Terminology. It is one of a series arising out of submissions by the automotive repairs industry, and consumer and government organizations.

The Standard aims at eliminating confusion in relation to terminology used to describe repairs to automotive engines.

Other Standards in this series are as follows:

Part 1: *Automatic transmission*

Part 2: *Manual transmission*

Part 3: *Transaxle*

Part 4: *Power steering*

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## CONTENTS

*Page*

1 SCOPE . . . . .	3
2 DEFINITIONS . . . . .	3
3 TERMINOLOGY RELATING TO ENGINE REPAIRS . . . . .	3

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# STANDARDS AUSTRALIA

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## Australian Standard

### Automotive repairs—Terminology

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#### Part 5: Engine

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**1 SCOPE** This Standard sets out terminology for the reconditioning and remanufacturing of reciprocating spark ignition automotive and industrial engines which are used in conjunction with standard ancillary code of practice components in applications intended by the original manufacturer.

NOTE: This Standard should be used in conjunction with AS 4182, *Automotive repairs—Code of practice for reconditioning reciprocating spark ignition engines*.

**2 DEFINITIONS** For the purpose of this Standard the definitions below apply:

**2.1 Short engine assembly**—a cylinder block and all those components contained within the limits of the block deck or decks, the pan rail, the block rear face and the timing cover, where fitted, including the crankshaft.

**2.2 Cylinder head assembly**—a cylinder head fitted with valves and associated springs and retainers.

**2.3 Long engine assembly**—a short engine assembly together with a cylinder head assembly and all those components fitted within and including the rocker or cam cover and sump. The whole is presented as an assembly.

**2.4 Reclaimed component**—a component which has been found to be beyond normal reconditioning sizes but which is rendered suitable for normal service by acceptable reclaiming techniques.

**2.5 Shall**—indicates that a statement is mandatory.

**2.6 Should**—indicates a recommendation.

### 3 TERMINOLOGY RELATING TO ENGINE REPAIRS

**3.1 Reconditioned short engine** The word ‘reconditioned’ and its near synonyms (e.g. ‘rebuilt’, ‘overhauled’, ‘remanufactured’) when used in relation to an engine, means that subsequent to its last use in a vehicle, the following work has been carried out:

- (a) All internal and external parts have been dismantled, cleaned and inspected.
- (b) The engine block inspected, has been crack-tested, pressure tested and all surfaces, bearing areas and cylinder bores inspected and rectified if necessary in accordance with the manufacturer’s specifications.
- (c) All internal stationary or moving parts have been inspected and any impaired, defective, or worn parts restored or replaced by new, reconditioned or unimpaired parts, all measuring and adjusting of such parts having been adequately performed to the manufacturer’s specification.
- (d) The block has been reassembled after the following have been verified:
  - (i) All components have been thoroughly cleaned.
  - (ii) New or used parts have been used in accordance with 3.1(c).