

Australian Standard[®]

**Automotive repairs—
Code of practice for reconditioning
reciprocating compression ignition
engines**

This Australian Standard was prepared by Committee CS/78, Automotive Repairs Terminology. It was approved on behalf of the Council of Standards Australia on 30 August 1996 and published on 5 September 1996.

The following interests are represented on Committee CS/78:

- Australian Automobile Association
- Australian Automotive Aftermarket
- Australian Transmission Rebuilders Association
- Department of Consumer Affairs N.S.W.
- Institute of Automotive Mechanical Engineers
- Metal Trades Industry Association of Australia
- Motor Traders Association of New South Wales
- Motor Vehicle Repair Industry Council
- Society of Automotive Engineers — Australasia
- Victorian Automobile Chamber of Commerce

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PREFACE

This Standard was prepared by the Standards Australia Committee CS/78 on Automotive Repairs Terminology and arose out of submissions by the automotive repairs industry, and consumer and government organizations.

The objective of this Standard is to minimize the confusion in relation to the practice of reconditioning or remanufacturing reciprocating compression ignition automotive and industrial engines to ensure uniformity of procedures within the engine reconditioning industry.

The term ‘normative’ has been used in this Standard to define the application of the appendix to which it applies. A ‘normative’ appendix is an integral part of a Standard.

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STANDARDS AUSTRALIA

Australian Standard

Automotive repairs—Code of practice for reconditioning reciprocating compression ignition engines

1 SCOPE This Standard establishes a code of practice for reconditioning and remanufacturing compression ignition engines used in light industrial, automotive and medium size transportation applications.

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 reconditioned 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.

2.4 Fully fuelled long engine assembly—a long engine assembly as described in Clause 2.3 which has all of the fuel system components, blower/turbocharger (when applicable), reconditioned and installed and adjusted to manufacturer's specification.

2.5 Manufacturer's specification—this term refers to the engine manufacturer. In instances where the aftermarket component manufacturer provides a different specification to suit a particular product or uprated design then the term may be taken to include component manufacturer.

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

2.7 Reconditioned (remanufactured) engine—describes an engine which has—

- (a) been dismantled, cleaned, inspected, i.e. crack tested, pressure tested or visually examined, whichever is applicable;
- (b) had the components inspected and machined, where necessary, to the manufacturer's specifications and finishes;
- (c) had new parts, as defined in this Standard, installed as required; and
- (d) had the engine assembled to manufacturer's clearances and specified fastener torque procedures.

NOTE: These terms may be applied to either the customer's own engine being reconditioned or a reconditioned exchange engine.

2.8 Replacement components—new components which are sourced from an original equipment or replacement part manufacturer and which have been produced in accordance with the manufacturer's latest specification for the engine model.

2.9 Shall—indicates that a statement is mandatory.

2.10 Should—indicates a recommendation.