

PAS 3100:2014

Remanufactured automotive parts –
Specification for a process control system

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Foreword

This PAS was sponsored by Honest Co. Ltd. Its development was facilitated by BSI Standards Limited and it was published under licence from The British Standards Institution. It came into effect on 30 September 2014.

Acknowledgement is given to the following organizations that were involved in the development of this PAS as members of the Steering Group:

- APRA Europe (Automotive Parts Remanufacturers Association);
- Aviva UK;
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The PAS process enables a specification to be rapidly developed in order to fulfil an immediate need in industry. A PAS can be considered for further development as a British Standard, or constitute part of the UK input into the development of a European or International Standard.

Use of this document

This PAS specifies a process management system for the remanufacturing of reclaimed automotive parts and also includes requirements for their preparation for sale or reinstallation in a vehicle. It has been prepared by an international group of industry experts to provide a means of demonstrating that remanufactured automotive parts placed on the market in accordance with its provisions are of a standard in line with relevant legislative requirements and currently recognized good practice, and are likely to function safely and reliably with performance comparable to that of the vehicle manufacturers original specification. This PAS has been drafted in a manner that permits its application as a specification in its own right. However, its approach is considered to be compatible with that of a formal quality management system (e.g. ISO 9001; ISO/TS 16949) and organizations already operating such a system may find it beneficial to integrate their application of this PAS within their overall quality management system.

Following the correct application of this PAS it will be the remanufacturing process, not the vehicle remanufacturer or the remanufactured part, for which conformity with the requirements of this PAS can be claimed.

It has been assumed in the preparation of this PAS that the execution of its provisions will be entrusted to a competent person or persons for whose use it has been produced.

Presentational conventions

The provisions of this PAS are presented in roman (i.e. upright) type. Its requirements are expressed in sentences in which the principal auxiliary verb is “shall”. Its recommendations are expressed in sentences in which the principal auxiliary verb is “should”. The use of the auxiliary verb “can” indicates that something is technically possible and the auxiliary verb “may” indicates permission.

Commentary, explanation and general informative material is presented in italic type, and does not constitute a normative element.

Contractual and legal considerations

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Introduction

PAS 3100:2014 sets out a process for the remanufacture of automotive parts that is uniformly applicable, reliably repeatable and objectively verifiable.

The remanufacturing of automotive parts is growing quickly on a global basis as a practical means of contributing to efforts to protect the environment. Reduction of waste and CO2 emissions can be effectively promoted by the remanufacturing of suitable parts.

Currently, remanufactured automotive parts, even ostensibly identical parts carrying the same part number, can differ greatly in performance and durability because the pattern and length of previous use varies considerably. Another significant influence is that some are placed on the market as “remanufactured” parts after only cursory refurbishment, often involving little more than cleaning and re-painting, without the application of any remanufacturing processes.

In principle, “remanufactured” parts that have been processed so as to include initial component inspection and test, some re-machining processes where necessary and where function testing and final inspection have been applied, should be capable of delivering performance equal to that of the original parts although it is acknowledged that the residual life may be less than that forecast for an original part. This will however be recognized in the warranty that will be issued with any part claimed to have been remanufactured using a process in compliance with this PAS.

Because the quality level of remanufactured automotive parts in the market is currently very wide, it can be difficult to distinguish between those remanufactured parts that are likely to deliver value for money and those that are not. Hitherto, the incidence of such remanufactured parts not meeting expectations has inhibited growth in the remanufactured parts market, to the detriment of achieving the looked for environmental benefits and at unacceptable cost to consumers.

The objective for PAS 3100 is that it should clearly and unambiguously define the terminology used to describe “remanufactured automotive parts” and specify an objectively verifiable process, with its constituent methods and tasks, that is capable of ensuring the remanufacture of automotive parts to a standard equivalent to that of manufacturers’ original parts.

PAS 3100 has been developed for application independently of other quality management systems or standards (e.g. ISO 9001; ISO/TS 16949) but is recommended for application in conjunction with such a system by automotive parts remanufacturers already operating or intending to operate in that manner.

Whether applied independently or as part of a quality management system, PAS 3100 has the potential to enhance the performance and reputation of the automotive parts remanufacturing industry, increase the satisfaction of end users and contribute meaningfully to both the improvement in the global environment and to the effective use of resources.

1 Scope

This PAS specifies requirements for a process control system for the remanufacturing of automotive parts in a manner that will support the issue of the warranty specified within its requirements.

This PAS is intended for use by entities undertaking the remanufacturing of used automotive parts for sale and use, and includes requirements for a generally applicable remanufacturing process for automotive parts, including:

- methods and constituent tasks;
- competence of personnel;
- tools and equipment;
- materials and controlled consumables;
- remanufacturing process management;
- quality control;
- health and safety of personnel;
- control of environmental impact of remanufacturing processes.

This PAS also includes requirements setting out the content of the required warranty and of declarations of conformity to its provisions.

It is applicable to the remanufacture of all used automotive parts for which remanufacture is technically possible on a uniformly repeatable basis, with the exception of tyres, which are the subject of existing specification.

2 Normative references

This PAS does not require the use of other documents for its application but attention is drawn to the documents listed in the bibliography which may be found to assist in ensuring efficient, effective operation.