

Australian/New Zealand Standard™

**In-service safety inspection and  
testing—Repaired electrical equipment**



## **AS/NZS 5762:2005**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-036, In-service Testing of Electrical Equipment. It was approved on behalf of the Council of Standards Australia on 25 July 2005 and on behalf of the Council of Standards New Zealand on 29 July 2005.  
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The following are represented on Committee EL-036:

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Australasian Lighting Industry Association  
Australian Chamber of Commerce and Industry  
Australian Electrical and Electronic Manufacturers' Association  
Australian National University  
Black Diamond Technologies Ltd - New Zealand  
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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-036 In-service Testing of Electrical Equipment.

This, the first edition, covers the testing process expected to be performed following repair before an appliance which has been serviced, repaired or undergone after-sale manufacturer's remedial action, is returned to its owner, so that when the appliance re-enters service, real and potential hazards such as electrical shock, mechanical injury, electrical and thermal fire, have been discovered, as far as is practicable.

The term 'informative' has been used in this Standard to define the application of the Appendix to which it applies. An 'informative' Appendix is provided for information and guidance, and may indicate good practice. Non-compliance with an informative Appendix shall not be seen as non-compliance with the Standard.

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## FOREWORD

Testing of appliances following repair is necessary for the safety of persons using the equipment and for the proper discharge of the obligations of employers and employees, as required in legislation covering electrical safety, and occupational health and safety matters.

The objective of this Standard is to ensure, in Australia and New Zealand, the safety of the owner, following the return of a repaired appliance intended for connection to the electrical supply mains, by offering the Repairer, Competent Person, Regulatory and similar agencies, a regime for inspection, testing and tagging.

**STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND****Australian/New Zealand Standard****Safety inspection and testing –  
Repaired electrical equipment****SECTION 1 SCOPE AND GENERAL****1 SCOPE**

This Standard specifies requirements for the post-sale safety inspection and testing of low voltage single phase and poly-phase (e.g. nominal 240V and 415V) electrical equipment, which has been repaired, or undergone service maintenance which could have affected electrical safety.

**1.1 EXCEPTIONS**

**1.1.1** This Standard shall not apply to equipment which has been only assessed visually for purposes such as providing a quotation of repair costs, and not repaired.

**1.1.2** This Standard does not apply to equipment whose nature is that of a medical device as defined in AS/NZS 3551.

**1.2 GENERAL**

**1.2.1** The inspection, testing and tagging regime described in AS/NZS 3760 is specified as the primary means of confirming the electrical safety of items which have undergone repair, servicing or manufacturer's after-sale remedial action.

**1.2.2** During repair of appliances, any safety features such as re-settable thermal cut-outs, tilt switches or electrical interlocks shall have their satisfactory operation confirmed.

**1.2.3** Confirmation of the efficacy of the repair need only be carried out on the particular area which is being serviced e.g. when servicing the control section of a hob or washing machine, it would not be necessary to dismantle the elements, or the motors respectively. This confirmation should be performed both during the servicing stage when the equipment is open for repair and at the conclusion when it has been re-assembled.

**1.2.4** Destructive testing shall not be performed.

**1.3 REFERENCED DOCUMENTS**

The following documents are referred to in this Standard:

AS/NZS

3551            Technical management programs for medical devices

3760            In-service safety inspection and testing of electrical equipment

**1.4 DEFINITIONS**

For the purpose of this Standard, the definitions listed in AS/NZS 3760, and those listed below shall apply:

**1.4.1 Maintenance**

An operation undertaken to extend the useful life of an item which is working satisfactorily.