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NZEC 53:1997

NEW ZEALAND ELECTRICAL CODE OF PRACTICE

for

**REQUIREMENTS APPLYING TO THE SALE OF USED ELECTRICAL
APPLIANCES FOR RECONDITIONING, PARTS, RECYCLING OR HISTORIC
COLLECTIONS**

Issued by the Office of
The Chief Electrical Engineer,
Operations and Risk Management Branch,
Ministry of Commerce,
Wellington, New Zealand

THE ELECTRICITY ACT 1992

Approval of the New Zealand Electrical Code of Practice for Requirements Applying to the Sale of Used Electrical Appliances for Reconditioning, Parts, Recycling or Historic Collections 1997 (*NZECP 53:1997*)

Pursuant to section 38 of the Electricity Act 1992, I, hereby approve the New Zealand Electrical Code of Practice for Requirements Applying to the Sale of Used Electrical Appliances for Reconditioning, Parts, Recycling or Historic Collections 1997 (*NZECP 53:1997*).

The New Zealand Electrical Code of Practice for Requirements Applying to the Sale of Used Electrical Appliances for Reconditioning, Parts, Recycling or Historic Collections 1997 (*NZECP 53:1997*) was issued by the Manager of Energy Inspection acting under delegated authority (*pursuant to section 41 of the State Sector Act 1998*) from the Secretary of Commerce on the 30th day of October 1997.

Dated this 11th day of March 1998.

Max Bradford
Minister of Energy

COMMITTEE REPRESENTATION

This Code of Practice was prepared by the Ministry of Commerce, Chief Electrical Engineer's Office in consultation with the following:

Second Hand Dealer
Christchurch City Council
Electrical Consultancy Services
Canterbury Electrical Installation Ltd
Fisher & Paykel Panasonic Division
Electrical Consultant
Gas Appliance Suppliers Association
NZ Electrical Institute

ACKNOWLEDGEMENT

The source material for this code was derived from the following documents, Australian Standard AS 1319 and IEC 335-1.

REVIEW

This Code of Practice will be revised as occasions arise. Suggestions for improvements of this Code are welcome. They should be sent to the Chief Electrical Engineer's Office, Ministry of Commerce, PO Box 1473, WELLINGTON.

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INTRODUCTION

This Code of Practice sets out general requirements applying to the sale of used domestic electrical appliances intended for - reconditioning (*reuse*) - salvaging of parts only (*recycling*) - or historic collections, so that an appropriate safety outcome for the public is achieved without preventing the recycling or resale of electrical appliances which may not be safe to use.

The purpose of this Code is to set a method by which any person purchasing such an item and any other potential users will be made aware that remedial action is required before the domestic electrical appliance may be put into service.

REQUIREMENTS APPLYING TO THE SALE OF USED ELECTRICAL APPLIANCES FOR RECONDITIONING, PARTS, RECYCLING OR HISTORIC COLLECTIONS

SECTION 1

SCOPE, REFERENCE DOCUMENTS, INTERPRETATION, GLOSSARY AND NUMBERING

1.1 SCOPE

- 1.1.1 This Code gives general requirements applying to the sale of used domestic electrical appliances intended for reconditioning (*reuse*), salvaging of parts only (*recycling*) or historic collection.
- 1.1.2 This Code does not apply to:
- (a) Used electrical appliances offered for resale and which comply to the testing requirements of AS/NZS 3760:1996 or NZECP 50:1993.
 - (b) Commercial electrical appliances.
 - (c) Electrical appliances not normally used in domestic situations.
 - (d) New electrical appliances.

1.2 REFERENCE DOCUMENTS

The following Standards and Code are referred to in this Code.

IEC 335-1:1991	International Electrotechnical Commission, Safety of household and similar electrical appliances - Part 1 General requirements.
AS 1319-1994	Safety signs for the occupational environment.
AS 2700-1985	Colour standards for general purposes.
AS/NZS 3760-1996	In-service safety inspection and testing of electrical equipment.
NZECP 50:1993	New Zealand Electrical Code of Practice for Repair of Domestic Electrical Equipment.

1.3 INTERPRETATION

For the purposes of this Code, the definitions below shall apply.

- 1.3.1 Combination sign - means a sign which comprises both word and a symbol.
- 1.3.2 Danger tag - means a sign on semi-permanent material which can be attached to plant, equipment or other objects for the purpose of a regulatory requirement, advising or informing users about some safety aspect of the item.
- 1.3.3 Enclosure - means a coloured band that outlines and emphasizes the symbolic shape of a sign (*sometimes referred to as the border*).

- 1.3.4 Legend - means the message content of a sign in words (*text*) or symbols, or a combination of these.
- 1.3.5 Shall - the word "shall" is to be understood as mandatory.
- 1.3.6 Should - the word "should" is to be understood as non-mandatory, i.e. advisory or recommended.

1.4 GLOSSARY OF ABBREVIATIONS USED IN THIS CODE

AS/NZS	Australia/New Zealand Joint Standard
°C	Degrees Celcius
m	Metres
mm	Millimetres
V	Voltage
W	Watts

1.5 NUMBERING SYSTEM OF THIS CODE (other than for Tables and notes to tables)

- 1.5.1 Sections are numbered 1 to 3.
- 1.5.2 Subsections are numbered by one full stop between numbers (*eg: 1.4*).
- 1.5.3 Clauses are numbered by two full stops between three numbers (*eg: 3.2.1*).
- 1.5.4 Paragraphs contain numbering punctuated by one or more full stops together with a parenthesised letter.
- 1.5.5 Subparagraphs are represented by lower case roman numerals enclosed in parenthesis following paragraphs.
- 1.5.6 Unless otherwise specified, references in this Code to sections, subsections, clauses, paragraphs, or subparagraphs are references to those of this Code.

SECTION 2**GENERAL REQUIREMENTS APPLYING TO THE SALE OF USED DOMESTIC ELECTRICAL APPLIANCES FOR RECONDITIONING, PARTS, RECYCLING OR HISTORIC COLLECTIONS****2.1 ELECTRICAL APPLIANCES**

2.1.1 Electrical appliances sold for reconditioning, parts, recycling or historic collections shall have:

- (a) A danger tag as described in Section 3 affixed on the electrical appliance adjacent to the position of the supply cord attachment or the electrical appliance inlet or the pins for insertion into the socket-outlet, as appropriate; and
- (b) The danger tag(s) located where the messages are legible so they attract attention and are clearly visible; and
- (c) The supply cord or the supply cord and plug or the electrical appliance inlet or the pins for insertion into a socket outlet, as appropriate, completely disconnected from the appliance at the terminal connection and discarded, thereby rendering the electrical appliance at the time of sale incapable of being inadvertently connected to a supply of electricity.

2.1.2 Electrical appliances sold for historic collections, shall either comply with the requirements of clause 2.1.1 or shall have the pins of the plug, appliances inlet or pin for insertion into a socket blanked off so that removal is by the use of a tool; and shall have a danger tag fitted in accordance with paragraph (b) of clause 2.1.1.

Notes: For some small electrical appliances such as a kettle, one tag will be sufficient.

For electrical appliances with a cord attachment, cutting of the supply cord as close as possible to the appliance is regarded as meeting the requirements of paragraph (c) of clause 2.1.1.

For electrical appliances with an appliance inlet, i.e. jugs, electric frypans, etc, removal of the element is regarded as meeting the requirements of paragraph (c) of clause 2.1.1.

SECTION 3

REQUIREMENTS FOR DANGER TAGS

3.1 GENERAL REQUIREMENTS

The design of danger tags shall conform to the following general requirements:

- (a) Be a *combination* sign with minimum dimensions of 80 mm x 50 mm exclusive of any additional area required to fix the tag to the electrical appliance(s).
- (b) Comprise a white rectangle, which may have a black and white surround. A red oval **`DANGER'** symbol on a black background is placed above the white rectangle as illustrated in Figure 1. Critical layout dimensions for the **`DANGER'** symbol are shown in Figure 3. Corners on the tag should be rounded.
- (c) For non-retroreflective surfaces comply with the colour specification listed in Table 1.
- (d) Pass the requirements of the test specified in Clause 3.2.
- (e) Incorporate a sign.
- (f) Have the word/symbol combinations for signs as illustrated in Figure 1.
- (g) Signs have word legends incorporating the word **`DANGER'** in white letters on a red symbolic oval shape. The sign shall comprise a white rectangle with black enclosure and white surround with the **`DANGER'** symbol on a black background placed above the white rectangle as shown in Figure 1.
- (h) Letters used on the worded parts of signs shall be as given in Figure 1. Letter spacings should be adequate to avoid loss of legibility when the sign is viewed at the maximum likely distance.
- (i) Sign face colours shall be as given in Table 1, specified in accordance with AS 2700, are indication of suitable sign colours. A suitable colour in the Pantone Matching System (*PMS*) for printing on a white substrate is also shown against each colour.
- (j) The legend within the white rectangle shall comprise a worded warning message in black letters and having the following wording:
 - (i) "This electrical appliance may contain electrical safety defects"; and
 - (ii) "Repairs carried out by the owner on this electrical appliance must conform with the requirements of the New Zealand Electrical Code of Practice for Repair of Domestic Electrical Equipment, NZECP 50".
- (k) The layout and design for the fire and electric shock risk symbols on the tag shall be as given in Figure 1. The electric shock and fire risk symbols shall be black within a triangular shaped black border and the background within the black triangle shall be yellow. The dimension and spacing of the two symbols shall be as given in Figure 2. The fire risk symbol shall be located on the left side and the electric shock symbol on the right side as shown in Figure 1.
- (l) The sign shall include at the bottom, on the bottom right hand corner, the following wording: "For further information: Free fax 0508 ELECTRIC or 0508 35328742".

- (m) The sign may include at the bottom left hand corner, the Company's logo and name, address and contact phone number of the seller.

TABLE 1

SIGN COLOURS

Colour	Designation
Red	R13-Signal red (<i>PMS 186C, 1795U</i>)
Yellow	Y13-Sunflower (<i>PMS 136C, 115U</i>)

3.2 TEST REQUIREMENTS FOR DANGER TAGS

3.2.1 The markings shall be durable.

3.2.2 Compliance is checked by inspection and by rubbing the marking by hand for 15 seconds with a piece of cloth soaked with water and again for 15 seconds with a piece of cloth soaked with petroleum spirit.

3.2.3 After such a test, the marking shall be clearly legible. It shall not be easily possible to remove marking plates and they shall show no curling.

Note: The petroleum spirit to be used for the test is aliphatic solvent hexane having a maximum aromatic content of 0.1% by volume, a kauri-butanol value of 29, an initial boiling point of approximately 65 °C, a dry point of approximately 69 °C and a specific mass of approximately 0.66 kg/l.

FIGURE 1

DANGER TAGS



ELECTRICAL SHOCK AND FIRE HAZARD

This electrical appliance may contain electrical safety defects.

Repairs carried out by the owner on their electrical appliance must conform with the requirements of the New Zealand Electrical Code of Practice for Repair of Domestic Electrical Equipment, NZECP 50.



*Seller's Company Logo
(Optional)*



For Further information,
Free Fax: 0508 ELECTRIC
or 0508 3532 8742

FIGURE 2

DIMENSIONS AND SPACINGS FOR DANGER TAGS



