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# Australian Standard 3172-1980

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## APPROVAL AND TEST SPECIFICATION FOR ELECTRIC COOKING APPLIANCES FOR HOUSEHOLD USE



PUBLISHED BY THE STANDARDS ASSOCIATION OF AUSTRALIA  
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THE FOLLOWING SCIENTIFIC, INDUSTRIAL AND GOVERNMENTAL organizations or departments were officially represented on the committee entrusted with the preparation of this specification:

- Australian Chamber of Commerce
  - Australian Electrical and Electronics Manufacturers Association
  - Confederation of Australian Industry
  - Electrical Apparatus Approvals Authorities
  - Electrical Contractors Associations of Australia
  - Electrical Testing Laboratories
  - Electricity Supply Association of Australia
  - Electronic Importers Association
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Amendment No 2  
August 1981

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**AMENDMENT No 2**

to

**AS 3172—1980**

**SAA Approval and Test Specification  
for**

**ELECTRIC COOKING APPLIANCES FOR HOUSEHOLD USE**

The 1980 edition of AS 3172 which was previously amended in April 1981 is further amended as follows; the amendment should be inserted in the appropriate place.

*SUMMARY:* The following sections of the standard are covered by this amendment: Clauses 17.1, 17.6, 17.9, 17.11.1; Appendix A; Table 2.

Published on 1 September 1981.

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Amendment No 3  
May 1982

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AMENDMENT No 3

to

AS 3172—1980

Approval and Test Specification  
for

**ELECTRIC COOKING APPLIANCES FOR HOUSEHOLD USE**

The 1980 edition of AS 3172 which was previously amended in April and August 1981, is further amended as follows; the amendment should be inserted in the appropriate place.

*SUMMARY:* The following sections of the standard are covered by this amendment: Tables 1, 2 and 3; Clauses 4.1, 4.2, 17.2, 17.11.2, 17.14 (new), 17.15 (new). In addition a number of references to AS C100 have been changed to AS 3100.

Published on 10 May 1982.

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**Preface.**

**Page 5.** (Line under title.)

**Clauses 3.1, 4.4, 5, 6.3.2, 7, 10, 11.1.2, 15, and 17.**

**Table 2.**

**Appendix A, A2.3.**

*Delete 'AS C100' and insert 'AS 3100'.*

**This amendment forms part of the specification on publication.**

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Amendment No 1  
April 1981

**STANDARDS ASSOCIATION OF AUSTRALIA**  
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**Amendment No 1**

to

**AS 3172—1980**

**SAA Approval and Test Specification**  
for

**ELECTRIC COOKING APPLIANCES FOR HOUSEHOLD USE**

The 1980 edition of AS 3172 is amended as follows; the amendment should be inserted in the appropriate place.

*SUMMARY:* The following sections of the standard are covered by this amendment: Table 1 and Clause 17.13.1.

Published on 1 May 1981.

25 MAY 1981

## PREFACE

This specification, prepared by Committee EL/2, Electrical Approvals Standards, was approved on behalf of the Council of the Standards Association of Australia on 25 February 1980, and was published on 1 May 1980.

It is one of a series of approval and test specifications issued by the Association under Part 2 of the SAA Wiring Rules. These specifications are accompanied by a general specification AS 3100 containing definitions and general requirements for electrical materials and equipment. The purpose of these specifications is to outline conditions which must be met to secure approval for the sale and use of electrical equipment in Australia. Only safety matters and related conditions are covered.

This edition was published to incorporate into the specification the three amendments to AS 3172—1976 and to effect changes to Clauses 8.9, 17.1, 17.10, 17.11, 17.14 and Table 3 with regard to testing appliances covered by AS 3172.

This specification supersedes AS 3172—1976 from date of publication.

The Association desires to call attention to the fact that this specification does not purport to include all the necessary provisions of a contract.

This specification requires reference to AS 3000, Part 1 (SAA Wiring Rules) and to the following Australian standard approval and test specifications:

AS 3133	Air-break Switches
AS 3135	Semi-enclosed Fuses for a.c. Circuits
AS 3140	Edison-type Screw Lampholders
AS 3158	Fibrous Insulated Electric Cables and Flexible Cables for Working Voltages of 0.6/1 kV
AS 3161	Thermostats and Energy Regulators
AS 3191	Electric Flexible Cords
AS C100 <sup>100</sup>	Definitions and General Requirements for Electrical Materials and Equipment
SEE AMENDMENT 3	
AS C109	Appliance Plugs and Appliance Inlet-sockets
AS C112	Plugs and Plug Sockets

In addition, reference to other approval and test specifications may be required for approval of particular components incorporated in electric cooking appliances for household use (see Clause 3.3).

Although not referred to or called up by this specification, attention is drawn to the quality and performance requirements in AS 1549, AS 1550 and AS 1551, Household Electric Ranges, Electric Hotplates, and Controls for Heating Units, respectively.

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# STANDARDS ASSOCIATION OF AUSTRALIA

## Australian Standard Approval and Test Specification for ELECTRIC COOKING APPLIANCES FOR HOUSEHOLD USE

This specification shall be read in conjunction with AS-~~C100~~ (See also Clause 3, below.) SEE AMENDMENT No 2  
3/80

**1 SCOPE.** This specification applies to electric cooking appliances, as defined in Clause 2.1 below, intended for electrical operation by direct or alternating current at low or medium voltage.

It applies to appliances such as electric ranges, ovens, cooking tables, hotplate hob units, grill boiler units, deep fryers, frypans, rotisserie cookers, saucepan type cookers, cake makers, contact type griddle and toasting plates, waffle irons, steam pressure cookers, plate and food warmers, and grillers; and to electric kettles, coffee percolators, drink heaters, and other appliances intended for the heating of water or drinks, including electric urns and urn-type percolators having a capacity of less than 4.5 litres or intended in normal operation not to contain more than 4.5 litres.

It does not apply to appliances within the scope of the Australian standard approval and test specifications for—

Electric bread toasters—AS 3101

Portable immersion heaters—AS 3104

Electric jugs—As 3106

**NOTE:** An appliance in the form of a container incorporating a sheathed element with provision for earthing the sheath is within the scope of this specification even though it may have a non-metallic body and, in shape, resembles a conventional jug.

**2 DEFINITIONS.** For the purpose of this specification the following definitions shall apply:

**2.1 Electric cooking appliance** (hereinafter referred to as an 'appliance')—an electrically operated appliance designed to apply heat to food, or liquids for drinking, and intended primarily for household use.

**2.2 Deep fryer**—a heated well or deep utensil which is intended for cooking food by immersion in fat or oil.