

Australian Standard[®]

**PERFORMANCE OF HOUSEHOLD
ELECTRICAL APPLIANCES**

**MANUALLY OPERATED
CONTROLS FOR HEATING
UNITS IN RANGES, BUILT-IN
COOKING TOPS AND
WALL-MOUNTED OVENS**

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The following interests are represented on Committee EL/15:

Australian Consumers Association
Australian Electrical and Electronic Manufacturers Association
Australian Federation of Consumer Organizations
Australian Retailers Association
Confederation of Australian Industry
Department of Consumer Affairs, N.S.W.
Electricity Supply Association of Australia
Housing Commission of New South Wales

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PREFACE

This edition of this standard was prepared by the Association's Committee on Quality and Performance of Household Electrical Appliances to supersede AS 1551 — 1974.

This edition incorporates Amendment No 1 to AS 1551 — 1974 issued March 1978 and contains additional requirements covering the marking of auxiliary contacts on all controls and the high voltage test applied to auxiliary contacts which form part of a control. Appendix A has been amended to specify for rotary controls the position of the flat on the operating spindle in relation to the locating tabs on the mounting face when the switch is in the 'off' position.

Clause 2.3 no longer requires all thermostats to provide means for adjusting the setting, but the minimum range of adjustment specified is unchanged for those that do.

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard

for

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MANUALLY OPERATED CONTROLS FOR HEATING UNITS IN RANGES,
BUILT-IN COOKING TOPS AND WALL-MOUNTED OVENS**

SECTION 1. SCOPE AND GENERAL

1.1 SCOPE. This standard specifies requirements for multiheat switches, energy regulators and thermostats (including those for oven, hotplate and rotisseries) intended for use in the control of heating units in household electric ranges.

The standard includes definitions, requirements relating to construction, performance requirements and methods of testing.

1.2 REFERENCED DOCUMENTS. The following standards are referred to in this standard:

AS 1549	Performance of Household Electrical Appliances — Ranges, Built-in Cooking Tops and Wall-mounted Ovens
AS 1721	General Purpose Metric Screw Threads
AS 3100	Approval and Test Specification for Definitions and General Requirements for Electrical Materials and Equipment
AS 3133	Approval and Test Specification for Air Break Switches
AS 3161	Approval and Test Specification for Thermostats and Energy Regulators
AS 3172	Approval and Test Specification for Electric Cooking Appliances for Household Use

1.3 SAFETY REQUIREMENTS. This standard does not include the electrical safety requirements which must be observed to secure approval for connection or sale of electric ranges and components in certain States. Controls for heating units in household electric ranges shall, in addition to complying with this standard, comply with the relevant requirements of AS 3133, AS 3161, and AS 3172, as appropriate.

1.4 DEFINITIONS. For the purpose of this standard, the following definitions apply:

1.4.1 Multiheat switch—a switch designed to alter the connections to a heating unit so as to provide not fewer than three heats.

1.4.2 Thermostat—a device having a thermally responsive element providing for the automatic control of an electric circuit in order that the temperature may be maintained within specified limits of a chosen setting.

1.4.3 Energy regulator—a device which permits a variation of the energy transmitted to a heating unit by changing the ratio of the 'on' and 'off' times or by varying the current or voltage or both in a progressive manner between the lowest and maximum declared positions. The energy regulator may be in the form of an infinite-control switch, a variable transformer, a saturable reactor, an electronic device, or the like.