

Australian Standard[®] 3194—1986

APPROVAL AND TEST SPECIFICATION— ELECTRIC SHAVER SUPPLY UNITS



PUBLISHED BY THE STANDARDS ASSOCIATION OF AUSTRALIA
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Incorporated by Royal Charter

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- Australian Consumers Association
- Australian Electrical and Electronic Manufacturers Association
- Confederation of Australian Industry
- Consumer Electronics Suppliers Association
- Electrical Apparatus Approvals Authorities
- Electrical Testing Laboratories
- Electricity Supply Association of Australia
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AMENDMENT No 1
to
AS 3194—1986
Approval and Test Specification—
ELECTRIC SHAVER SUPPLY UNITS

REVISED TEXT

The 1986 edition of AS 3194 is amended as follows; the amendments should be inserted in the appropriate place.

SUMMARY: The following sections of the standard are covered by this amendment: Clauses 1.2.1, 4.1.1 and 4.1.2.

Published on 6 April 1987

STANDARDS AUSTRALIA

Amendment No 2
to
AS 3194—1986
Approval and test specification—Electric shaver supply units

REVISED TEXT

The 1986 edition of AS 3194, which was amended in April 1987, is further amended as follows; the amendment should be inserted in the appropriate place.

SUMMARY: This Amendment applies to Clause 4.2.

Published on 14 July 1989.

PREFACE

This standard was prepared by the Association's Committee EL/2, Electrical Approvals Standards.

It is one of a series of approval and test specifications issued by the Association. 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 Amendment No. 1 to AS 3194—1982 and to effect changes to Clauses 10 and 14.6 with regard to new requirements for switches and fire tests. Also a list of referenced documents has been added to Clause 1 and a Note with regard to the Standards Mark has been added to Clause 13.

This specification supersedes AS 3194—1982 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.

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard

APPROVAL AND TEST SPECIFICATION—
ELECTRIC SHAVER SUPPLY UNITS

This specification shall be read in conjunction with AS 3100. (See also Clause 3, below.)

1 SCOPE AND REFERENCED DOCUMENTS.

1.1 Scope. This specification applies to fixed or portable electric shaver supply units, designed for operation at low voltage, as defined herein.

1.2 Referenced documents. The following documents are referred to in this specification.

1.2.1 Standards.

BS 4573 2-pin Reversible Plugs and Shower Socket-outlets.

NZSS 198 3-pin Flat-pin Plugs, Plug-sockets, and Cord Extension Sockets with 10-ampere, 250-volt (maximum) rating.

NZSS 2180
ANSI C73-10 ^{SEE AMENDMENT 1} 125 Volts, 15 Amperes, 2 Pole, 2 Wire.

CEE Publication 7 Plugs and Socket-outlets for Domestic Installations. ^{322.6060}

1.2.2 Approval and test specifications.

AS 3100 Definitions and General Requirements for Electrical Materials and Equipment

AS 3112 Plugs and Plug Sockets

AS 3133 Air-break Switches

AS 3145 Radio Interference Suppression Devices

AS 3167 Protective Isolating Transformers

AS 3191 Electric Flexible Cords.

2 DEFINITION. For the purpose of this specification, the following definition applies:

2.1 Electric shaver supply unit—a device with plug sockets supplied through an isolating transformer to permit the insertion of electric shaver plugs of varied configurations and voltages.

NOTE: Where reference is made to plug sockets in this specification it refers to shaver supply plug sockets; however, the incorporation of additional plug sockets and switches not connected to the isolating transformer but complying with AS 3112 and AS 3133 respectively, is acceptable.

3 COMPLIANCE WITH SPECIFICATIONS.

3.1 General requirements of AS 3100. This specification shall be read in conjunction with AS 3100 and the appropriate provisions of AS 3100 shall apply to the design and construction of electric shaver supply units covered by this specification.

3.2 Specific requirements of this specification. Electric shaver supply units shall be deemed to comply with this specification only if they comply with all the requirements of this specification and pass the relevant tests specified herein.

3.3 Requirements of other specifications. Components incorporated in electric shaver supply units which are depended upon for safety shall comply with the

appropriate requirements of any relevant approval and test specification unless such requirements are varied herein.

4 DESIGN AND CONSTRUCTION.**4.1 Plug sockets.**

4.1.1 Connection facilities. The shaver supply unit shall be provided with two or more plug sockets that will enable connection to be made by at least the following plugs:

Australia: ^{SEE AMENDMENT 1} 2-pin or 3-pin plugs complying with AS 3112, Fig. 2-1 10 A.

New Zealand: ^{SEE AMENDMENT 1} 10 A 3-pin flat pin plugs complying with NZSS 198.

British: 5 A 2-pin plugs complying with BS 4573.

American: 15 A parallel-blade attachment plugs complying with ANSI C73.10.

European: 10 A 2-pin plugs complying with CEE Publication No. 7.

4.1.2 General requirements. No plug socket shall receive supply from the isolating transformer at more than one voltage.

Each plug socket shall—

- be connected to an output winding of the isolating transformer;
- be so situated that it is impossible for any plugs to be inserted so that one pin is in engagement with a contact while the other overhangs the side of the unit;
- have contacts that make and maintain, under normal service conditions, satisfactory electrical and mechanical contact with the pins of the appropriate type of plug;
- have its contacts recessed behind the surface of the unit so that they cannot be touched by the standard test finger.

For any outlet supplied through an isolating transformer the aperture provided in the normal position for an earth pin shall not be provided with a facility for connection to an earth conductor.

It shall not be possible to use more than two plug sockets at any one time.

The insulating portions of the plug sockets shall comply with Clause 3.3 of AS 3112.

4.2 Isolating transformer. The isolating transformer incorporated in a shaver unit shall comply with Clauses 4, 5, 8, 14 and 18.2 of AS 3167. AS 3108.1-2-3.

Two plug sockets may ^{SEE AMENDMENT 2} be connected to one output winding of the transformer.

4.3 Face plate. The shaver supply unit shall have a face plate constructed of insulating material of such strength and thickness that it cannot be readily deformed.