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Testing a Class I Appliance

The IEE Code of Practice for In-Service Testing and Inspection of Electrical Equipment recommends the following: 1. Formal visual inspection 2. Earth continuity 3. Insulation resistance / Protective conductor current 4. Functional checks

Formal visual inspection

The formal visual inspection should include the following as a minimum:

a) Is the fuse rating correct b) Is there damage to the casing c) Is there damage to the mains plug or cord



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Earth Continuity

A continuity test should be made between the earth pin of the mains plug and all exposed metal parts. This may require multiple tests on a single





Insulation Resistance 🕨

Appliances should not be touched whilst carrying out insulation resistance tests. All power switches must be in the 'on' position. All covers should be in place.





Pass/Fail limits for Class I Equipment		
Earth continuity	(0.1 + R)* ohms	
Insulation resistance	1Mohm	
Protective conductor current	Portable or hand-held Class I equipment - 0.75mA	
	Class I Heating appliances - 0.75mA or 0.75mA	Sea
	per kW whichever is greater, with a maximum of 5mA	Tel:
	Other Class I equipment - 3.5mA	Part



Functional Check Ensure that the appliance is working properly.

award, Bracken Hill, South West Industrial Estate, Peterlee, County Durham, SR8 2SW United Kingdom **1:** +44 (0) 191 586 3511 **Fax:** +44 (0) 191 586 0227 **Email:** sales@seaward.co.uk **Web:** www.seaward.co.uk

Part No: 998A110



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Testing a Class II Appliance

The IEE Code of Practice for In-Service Testing and Inspection of Electrical Equipment recommends the following:

1. Formal visual inspection 2. Insulation resistance / Touch current 3. Functional checks

Formal visual inspection

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The formal visual inspection should include the following as a minimum:

a) Is the fuse rating correct b) Is there damage to the casing c) Is there damage to the mains plug or cord



Insulation Resistance

Appliances should not be touched whilst carrying out insulation resistance tests. All power switches must be in the 'on' position. All covers should be in place.

The test probe should be connected to any exposed metal parts or parts of the enclosure where the insulation may be suspect, for example, where conductive material may have accumulated.

Touch Current

The test probe should be connected to any exposed metal parts or parts of the enclosure where the insulation may be suspect, for example, where conductive material may have accumulated.

The equipment must be switched on and so suitable precautions should be taken when testing equipment with moving parts or heating elements.



Functional check Ensure that the appliance is working properly.

Pass/Fail limits for Class II Equipment		
Insulation resistance	2Mohms	
Touch current	0.25mA	

Seaward, Bracken Hill, South West Industrial Estate, Peterlee, County Durham, SR8 2SW United Kingdom Tel: +44 (0) 191 586 3511 Fax: +44 (0) 191 586 0227 Email: sales@seaward.co.uk Web: www.seaward.co.uk

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