

INSTRUCTIONS FOR

13A Socket Tester

Stock No.22278

Part No.ST-1

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY TO ENSURE THE SAFE AND EFFECTIVE USE OF THIS PRODUCT.



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GENERAL INFORMATION

These instructions accompanying the product are the original instructions. This document is part of the product, keep it for the life of the product passing it on to any subsequent holder of the product. Read all these instructions before assembling, operating or maintaining this product.

This manual has been compiled by Draper Tools describing the purpose for which the product has been designed, and contains all the necessary information to ensure its correct and safe use. By following all the general safety instructions contained in this manual, it will ensure both product and operator safety, together with longer life of the product itself. All photographs and drawings in this manual are supplied by Draper Tools to help illustrate the operation of the product.

Whilst every effort has been made to ensure the accuracy of information contained in this manual, the Draper Tools policy of continuous improvement determines the right to make modifications without prior warning.

TITLE PAGE

1.1 INTRODUCTION:

USER MANUAL FOR:

13A SOCKET TESTER

Stock no. 22278 Part no. ST-1

1.2 REVISIONS:

Date first published December 2011

As our user manuals are continually updated, users should make sure that they use the very latest version.

Downloads are available from: http://www.drapertools.com/b2c/b2cmanuals.pgm

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1.3 UNDERSTANDING THIS MANUALS SAFETY CONTENT:

WARNING! Information that draws attention to the risk of injury or death.

CAUTION! Information that draws attention to the risk of damage to the product or

surroundings.

1.4 COPYRIGHT © NOTICE:

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3. GUARANTEE

3.1 GUARANTEE

Draper tools have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship.

Should the tool develop a fault, please return the complete tool to your nearest distributor or contact Draper Tools Limited, Chandler's Ford, Eastleigh, Hampshire, SO53 1YF. England.

Telephone Sales Desk: (023) 8049 4333 or Product Helpline (023) 8049 4344.

A proof of purchase must be provided with the tool.

If upon inspection it is found that the fault occurring is due to defective materials or workmanship, repairs will be carried out free of charge. This guarantee period covering parts/labour is 12 months from the date of purchase except where tools are hired out when the guarantee period is ninety days from the date of purchase. This guarantee does not apply to normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accidents, or repairs attempted or made by any personnel other than the authorised Draper warranty repair agent.

Note: If the tool is found not to be within the terms of warranty, repairs and carriage charges will be quoted and made accordingly.

This guarantee applies in lieu of any other guarantee expressed or implied and variations of its terms are not authorised.

Your Draper guarantee is not effective unless you can produce upon request a dated receipt or invoice to verify your proof of purchase within the guarantee period.

Please note that this guarantee is an additional benefit and does not affect your statutory rights. Draper Tools Limited.

4. INTRODUCTION

4.1 SCOPE

This Socket Tester can be used to determine whether socket wiring is correct or incorrect. It is equipped with an additional RCD tester for testing the operation of a RCD rated at less than 30mA.

In conjunction with the coding table provided, the five combined indicators indicate the true status of the wiring condition.

A clear indication of an Earth fault will be shown on the tester if a dangerous contact voltage is present at Earth (ground).

4.2 SPECIFICATION

Stock no	22278
Part no	ST-1
Rated voltage	230V
Rated frequency	50Hz
Measurement category	CAT Ill, 300V
RCD-test time	60 - 300ms
Contact voltage threshold	<35V AC
	against ground depending on
	coupling to earth
RCD test current	30mA ±15%
Working Temperature	0°C ~ 40°C
	relative humidity <80%
Size	76 x 67 x 74mm
Weight	82g

4.3 HANDLING & STORAGE

Although this tester is small in size, care must still be taken when handling. Dropping this tester will have an effect on the accuracy and may also result in personal injury. This tester is not a toy and must be respected.

The environment will have a negative result on its operation if you are not careful. If the air is damp, components will rust. If the machine is unprotected from dust and debris; components will become clogged: And if not cleaned and maintained correctly or regularly the tester will not perform at its best.

HEALTH & SAFETY INFORMATION

5.1 GENERAL SAFETY INSTRUCTIONS FOR SOCKET TESTER USE

⚠WARNING: Do not use tester if wet or damaged in any way.

WARNING

- 1. In order to avoid electrical shock, use proper safety measures when working with voltages above 32V AC rms, 42V AC peak or 60V DC.

 These voltages can pose a shock hazard.
- If a plug adapter has to be used to test a socket or a lead connection, ensure that this adapter is in a perfect condition and that the protective conductor connection of the adapter is continuously connected. Using the tester without continuous protective conductor leads to faulty test results.
- 3. Before use, check that the instrument is in perfect working order, for example, verify the instrument's operation with a known voltage source.
- 4. For socket wiring test, a clear and safe statement concerning the test result can only be given in connection with the touching of the contact electrode.
- 5. This instrument cannot detect N/Earth reverse.
- Result of the instrument's RCD test is only for reference, RCD test result is not guaranteed.
- 7. The indicators may at times light up weakly depending on the distributed capacitance of the electrical installation.
- 8. Always keep the instrument dry.
- Except the contact electrode, don't touch any other conductor with hand or skin to avoid electric shock.
- 10. The instrument must only be used under the conditions and for the purposes for which it has been designed.

6. TECHNICAL DESCRIPTION

6.1 IDENTIFICATION



- ① Neutral (N)
- 2 LCD for Earth-error indication
- ③ Earth ≟
- 4 Live (L)
- (5) Contact electrode

- (6) RCD test button
- (7) "RCD 30mA" indicator
- 8) Code table

7. PREPARING THE SOCKET TESTER

7.1 TESTING SOCKET WIRING

- 1. Plug instrument into the socket to be tested.
- 2. Touch the contact electrode with one finger and read the indicators. Explanation regarding the test result is described in Table.

If the LCD display shows the symbol "\tilde{\textsuperscript{\textsuperscr

	INDIC	ATORS		"RCD 30mA"	
Symbol "A" on the LCD	"Neutral" Lamp	"Earth" Lamp	"Live" Lamp	Test Result	Lamp
OFF	OFF	ON	ON	Correct socket wiring	ON
OFF	ON	ON	OFF	L / N reverse	OFF
ON	ON	OFF	ON	L / Earth reverse	ON
ON	ON	ON	OFF	E = L (Protective conductor equals live wire)	OFF
ON	OFF	ON	OFF	Earth open	OFF
OFF	OFF	OFF	ON	N open	ON
OFF	OFF	OFF	OFF	L open	OFF

The coding table on the instrument is provided for easy use and is similar to the table mentioned above, the difference is that the "RCD 30mA" lamp indications are not listed in the coding table.

7.2 RCD TEST

WARNING!

This instrument can not be used as a replacement of a diagnostic RCD tester.

- Plug the instrument into the socket which is under the monitoring of the RCD to be tested.
 - If the "RCD 30mA indicator doesn't light, don't proceed to perform the RCD test.
- 2. Push the button to start RCD test. The RCD must trip after the test. If the RCD does not trip, the RCD or the entire electrical installation must be checked by a qualified electrician.

∧ 8. DISPOSAL

8.1 DISPOSAL

- At the end of the tester's working life, or when it can no longer be repaired, ensure that it is disposed of according to national regulations.
- Contact your local authority for details of collection schemes in your area. In all circumstances:
 - Do not dispose of testers with domestic waste.
 - Do not incinerate.
 - Do not abandon in the environment.
 - Do not dispose of WEEE* as unsorted municipal waste.



* Waste Electrical & Electronic Equipment.

9.1 EXPLANATION OF SYMBOLS



Warning! Electric shock risk



Warning! User forms part of the circuit and must be earthed. Do not conduct test in damp conditions or with wet hands.



Warning!



WEEE Do not dispose of Waste Electrical & Electronic Equipment in with domestic rubbish

NOTES

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CONTACTS

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- **General Enquiries:** (023) 8026 6355

Service/Warranty Repair Agent

For aftersales servicing or warranty repairs, please contact the Draper Tools Helpline for details of an agent in your local area.

YOUR DRAPER STOCKIST

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