

## 8455 & 8455A Line Loop Tester

### Available with Field Replaceable Switches

Simpson's Model 8455 Line Loop tester detects line shorts, opens and multiple ringers, DC voltages and loop resistance.

It can measure DC voltage up to 100 volts and loop resistance to 2 megohms.

A front panel "reverse polarity" switch allows changing polarity positions quicker and easier than manually switching test leads when making line checks.

This switch is field replaceable, enabling your loop tester to be operational at all times without costly shop repairs.

The compact durable construction of this tester ensures continued accuracy even under the most rugged field conditions.



**Model No. 8455**

- **Field Replaceable Switches** - Allows operator to get back to the job quickly with less downtime. The replacement toggles or push buttons can be kept in the truck and replaced on site, keeping the unit in service at all times.
- **Designed for Telecom Applications** - Accurately checks line shorts, opens and multiple ringers.
- **Wide Measuring Range** - Measures DC voltage 0-100V and resistance  $R \times 1$ ,  $R \div 10$ .
- **Shorter Testing Time** - Polarity toggle switch eliminates manually switching test leads when conducting line checks.
- **Rugged for Field Use** - Durable, compact (5-1/2" x 2-3/8") construction makes it portable, easy to store and rugged.
- **Accurate, Finer Readings** - 0-100 points scale calibration yields accurate readings.

| Resistance                  |               |              |                  |              |
|-----------------------------|---------------|--------------|------------------|--------------|
| Model                       | Standard      |              | Low Ohms         |              |
| Range                       | $R \times 1$  | $R \div 10$  | Points           | Low Ohms     |
| Center Value                | 100K $\Omega$ | 10K $\Omega$ | 50 points        | 500 $\Omega$ |
| Accuracy                    | 2° of arc     |              | 2° of full scale | 2° of arc    |
| Open Circuit Voltage (nom)  | 45V           | 45V          | N/A              | 1.2V         |
| Short Circuit Current (nom) | 450 $\mu$ A   | 4.5mA        | N/A              | 2.4mA        |

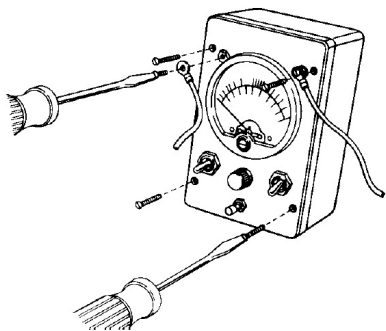
## 8455 & 8455A Line Loop Tester

| Ordering Information                      |                |                                                 |                |
|-------------------------------------------|----------------|-------------------------------------------------|----------------|
| Model 8455 Line Loop Tester               | Catalog Number | Model 8455A Line Loop Tester (Low Ohms Version) | Catalog Number |
|                                           | 40010          |                                                 | 40011          |
| Field Rep. Switch                         | Yes            | Field Rep. Switch                               | Yes            |
| Low Ohms                                  | No             | Low Ohms                                        | Yes            |
| Accessories Included                      |                |                                                 |                |
| Case                                      | Yes            | Case                                            | Yes            |
| Leads                                     | Yes            | Leads                                           | Yes            |
| Battery Pack                              | Yes            | Battery                                         | Yes            |
| Manual                                    | Yes            | Manual                                          | Yes            |
| Optional Accessories (Recommended)        |                |                                                 |                |
| Case                                      | 00836          | Case                                            | 00836          |
| Leads                                     | 45001          | Leads                                           | 45001          |
| 10 Pk. Replaceable Switches - Toggle      | 45025          | 10 Pk. Replaceable Switches - Toggle            | 45025          |
| 10 Pk. Replaceable Switches - Push Button | 45026          | 10 Pk. Replaceable Switches - Push Button       | 45026          |

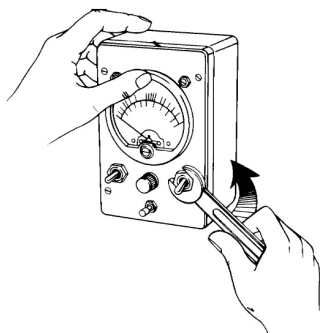
| Specifications                                  |                                                                         |
|-------------------------------------------------|-------------------------------------------------------------------------|
| DC Voltage                                      |                                                                         |
| Range                                           | 100V                                                                    |
| Sensitivity                                     | Model 8455, 1K $\Omega$ per volt<br>Model 8455A, 3333 $\Omega$ per volt |
| Isolation                                       | 100V DC max. circuit to earth ground                                    |
| Overload Protection                             | 10mA/250V fuse on all ranges                                            |
| Temperature Coefficient                         | (57°F to 97°F): $\pm 2\%$ F.S. (VDC)                                    |
| Power                                           | (1) Simpson 45V battery pack, Catalog number 00865                      |
| Physical Dimensions                             | 5.5" (H) x 3.6" (W) x 2.4" (D), (14 x 9 x 6 cm)                         |
| Weight                                          | 1 lb. (0.5 Kg)                                                          |
| Specifications subject to change without notice |                                                                         |

## 8455 & 8455A Line LoopTester

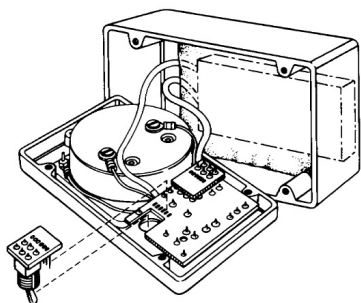
### Field Replaceable Switches Save Time - Save Money



Remove the test leads and 4 screws located near the meter face from the 8455A's front cover.



Detach the mounting nut from the defective toggle switch.



Unplug the worn cut or broken switches and plug in a new one!  
Total time under 5 minutes.  
Push-button style switches also available.

**Simpson's FIELD REPLACEABLE SWITCHES** - replace broken switches in less time than it takes to complete a field report or repair paper work.

Simpson uses the best toggle switches, with pinned toggles for longer life.

The pictorial steps to the left illustrate the simplicity of replacing a toggle switch.

Complete detailed replacement instructions are provided in both the 8455 and 8455A operator's manuals.

## 8455 & 8455A Line LoopTester

### Model 8455A Low Ohms Version

Includes all the features of the 8455. Select the low ohms model if measuring electrical resistance over short lines (for example, in city and suburban locations).



### Test Leads for 8455 and 8455A

#### Catalog Number 45001

Consists of one each, red and black, flexible test leads, 6 ft. long with Telco clips at one end and ring-tongue connectors at the other end for connection to the Instrument's screw terminals.



### Protection for 8455 & 8455A

#### Catalog Number 00836

Simpson's foam padded, nylon water repellent case, protects the 8455 or 8455A both in storage and during transport.

Use either the case handle or adjustable nylon strap for easy carrying. The neck strap frees both hands for making measurements. The case, made of nylon mesh with an extremely dense weave and water repellent backing, safely protects unit from inclement conditions.

Foam padding on sides, top and bottom safeguards unit from damage.

A convenient pocket stores leads while they are attached to the instrument.

