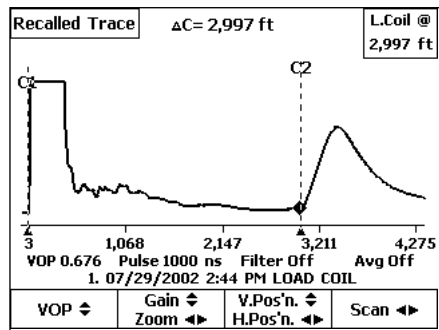
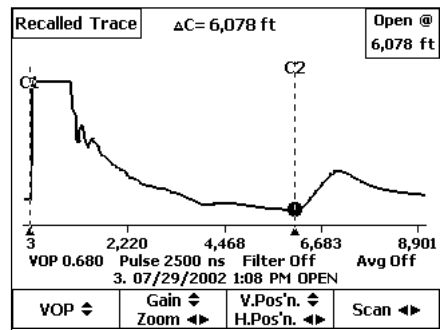


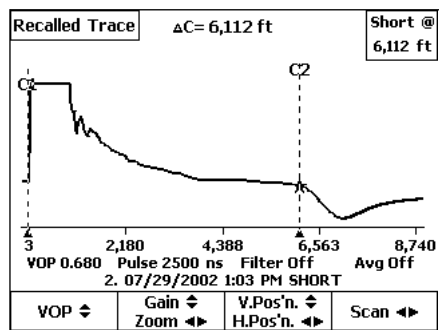
Quick Start Guide: Using the TDR to locate faults



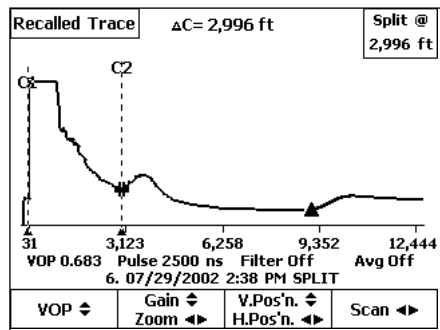
Load coil at 2,997 feet.



Open at 6,078 feet



Short at 6,112 feet



Split at 2,996 feet



NETWORK SUPERVISION

Fluke Networks
P.O. Box 777, Everett, WA USA 98206-0777

Fluke Networks operates in more than 50 countries worldwide. To find your local office contact details, go to www.flukenetworks.com/contact.

©2003 Fluke Corporation. All rights reserved.
Printed in U.S.A. 6/2003 2091626 B-ENG-N Rev A

CopperPro 990 Loop Tester



1. Selecting Cable Length

When using the Auto mode for setup, the 990 will look for major faults and therefore may use a long pulse width. At times, you may wish to look at smaller sections of cable.

From Main Screen:

Select Setups (F4)

Select Edit (F1)

Use  and  keys to select Pulse Width/Distance

Alternative:

Use TDR Auto-Test

Press Pulse Width (F1)

Use  and  keys to scroll Pulse Width

20ns = 500'

100ns = 2000'

500ns = 4000'

1000ns = 6000'

2500ns = 12000'

5000ns = >12000'

Caution:

When using small pulse widths on long cable, the display will show only maximum length for pulse width, not the end of the cable.



2. Identifying Bridged Taps

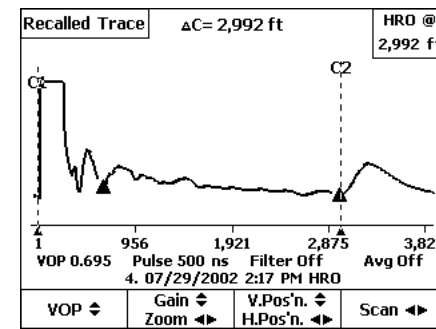
It is often difficult to distinguish between bridged taps and other reflective measurements. When the auto TDR indicates **Bridge Tap**, another test should be done to verify that reflection is a bridged tap.

Either run an opens test or resistive length. Compare the resulting measurements to the length shown on the TDR. If the lengths are different by about the amount shown as a bridged tap on the TDR, then expect a bridged tap.

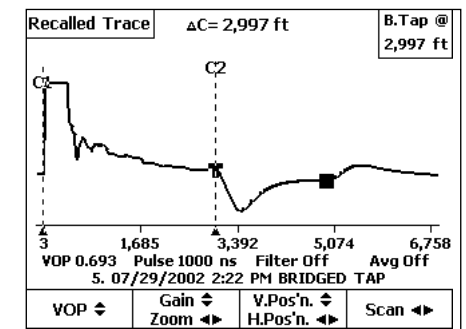
The first square indicates the beginning of the bridged tap and second square indicates the end or length.

It is important to note that the TDR indicates some sort of reflective fault at that point in any case.

3. Sample Fault Traces (TDR AutoTest)



High resistance open at 2,992 feet.



Bridge tap at 2,997 feet. Block cursor shows end of tap