

# LOOP CURRENT TECH BULLETIN

Also: INSTRUCTIONS FOR DETERMINING LOOP LOSS IN db

Loop Current is the amount of electrical energy flowing through the telephone and line, as opposed to the voltage which is the force behind the energy. There is a definite correlation between the Loop Current and Line Voltage (Ohm's Law), but the current is often the part that shows the problem... *not* the voltage reading. The carbon transmitter in the phone has been the controlling factor for years, since it needs over 20ma to sound good.

FaxBack from Anywhere  
**1-800-669-9900**  
 Document **503**

You need to read  
 the whole bulletin!

- WHY THERE ARE HIGH LOOP CURRENT PROBLEMS TODAY, AS OPPOSED TO LOW LOOP CURRENT PROBLEMS IN THE PAST.
- WHY THE PHONE COMPANY WON'T DO A THING FOR YOU.
- ALL BETS ARE OFF IN VERY RURAL AREAS
- FIXING THE HIGH LOOP CURRENT WITH RESISTORS, WHILE SCREWING UP THE LEVEL ON THE LINE SO THE CUSTOMER CAN'T HEAR.
- UNFIXABLE DATA PROBLEMS
- MODEM CONNECTION & SPEED PROBLEMS
- UNFIXABLE KSU PROBLEMS - EVEN AFTER YOU'VE CHANGED OUT THE KSU
- CROSSTALK AND SQUEALS ON THE LINES
- PROBLEMS ON SINGLE LINE STATIONS OFF OF PBXs
- HIGH LOOP CURRENT FROM T1 CHANNEL BANKS
- HOW TO MEASURE LOOP CURRENT
- WHAT YOU SHOULD READ ON THE METER
- WHAT YOU CAN DO ABOUT HIGH OR LOW CURRENT
- USING LOOP CURRENT ATTENUATORS
- THE EFFECTS OF USING 100 OHM RESISTORS ON BOTH LOOP CURRENT AND CIRCUIT LOSS
- A PRIMER ON CIRCUIT LOSS (CAN'T HEAR PROBLEMS)
- HOW TO MEASURE CIRCUIT LOSS
- WHAT SHOULD YOU READ ON THE METER
- WHAT TO DO IF THE LOSS IS TOO GREAT
- USING MILLIWATT (1 THOUSAND CYCLE TONE) LINES

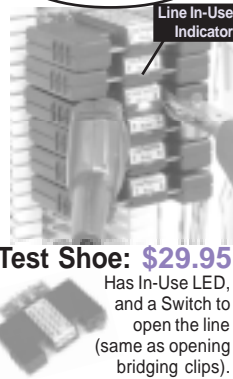
## Fix the Unfixable!

High Loop Current Problems are Causing You Service Calls... and You Don't Even Know It!  
 >35ma Symptoms Include:

- Burned Out Key, PBX & Data Equipment
- Garbled Data & Modem Won't Connect
- Cut-offs & Squealing on Lines
- Crosstalk, Echo & Hollow Sounding
- Numerous Intermittent Circuit Failures
- Off Premise Equipment Problems
- Problems on Voice Mail Ports

**NEW**  
 66 Block Regulator!

**\$34.50**  
 6 @ \$32.50  
 20 @ \$31.50



MODULAR LOOP CURRENT REGULATOR

No DIP Switches... No Meter!  
 Just plug it in, and the loop current is automatically reduced to 25ma!

- 1 Line #WAL5S: \$38.95  
 3 @ \$37.95
- 2 Line #WAL5T: \$49.95  
 3 @ \$47.95



Test Shoe: \$29.95

Has In-Use LED, and a Switch to open the line (same as opening bridging clips).



## Circuit Loss Tester

- Call the 1000 Cycle Tone at the CO you're working on, Push the Button and Read the db Circuit Loss on the Bright Red 1/2" Tall LED Display!
- Tiny, but Verry Accurate!
- Reads from +10 to -40db.  
 +10 to -20db is in 1/2db increments.  
 -20 to -40db is in 1 db increments.

**\$99.95**

One Button!

Line Powered!

## Some Symptoms of High Loop Current Include:

- Burned Out Key, PBX or Data Equipment
- Garbled Data and Modem Failures
- Cut-offs & Squealing on Lines
- Crosstalk, Echo & Hollow Sounding Lines
- Numerous Intermittent Circuit Failures
- Off Premise Equipment Problems

## Some Symptoms of Low Loop Current Problems:

- Poor Voice Transmission Quality & Low Volume
- Ghost Rings
- Wrong Numbers
- Lost Calls During Transfer
- Data Loss



**\$49.95**

## 1KC Tone Generator

- When you can't get the number for the 1000 Cycle Tone, this is how you find the Circuit Loss!
- Do a "Loop Around Test", where you send tone out one line, and measure it on another.
- Just dial the phone number it's connected to. Answers on the first ring! Hangs up when you do!
- Verry Precise 1004hz tone at 0db, "stutters" every 10 seconds just like the telco's tone!

NO Button!

Line Powered!

## Don't Like Using a Meter?



## Loop Current Tester

LEDs indicate Low, Good, Fair, High and Extreme Loop Current at the push of a Button!

Only **\$35.95** **NEW!**

Deluxe Unit: \$69.95

Just Bridge it Anywhere  
 Across the Line!

One Button!  
 Line Powered!



NO Button!  
 Line Powered!

The CPC Tester will tell you whether you're getting the CPC signal, telling your system to hang up.

**\$45.95**

#TOH7N

Incredibly easy to use! Plug it into the line. Make a call and have the other end hang up. The top red LED will flash for the duration of the CPC signal, and one of the LEDs will light up indicating the length of the CPC signal.



www.sandman.com

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