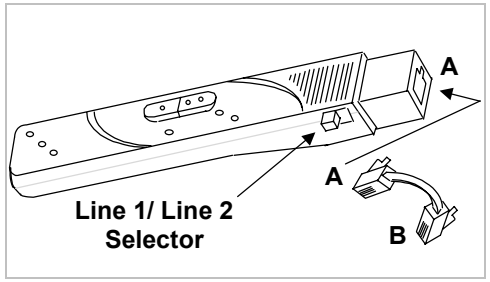
BT-10 Telephone & Modem Line Tester -Instruction Booklet-

The BT-10 is designed to test a variety of telephone line parameters. It can help prevent needless and expensive telephone company service calls and can safeguard your equipment by testing one or two line installations for proper operation of:

- ◊ Tip to Ring DC Polarity.
- ◊ Relative DC Line voltage level.
- ◊ Line Loop-Current capacity.
- ◊ Relative AC Ring voltage level.
- ◊ Phone extensions and cords.

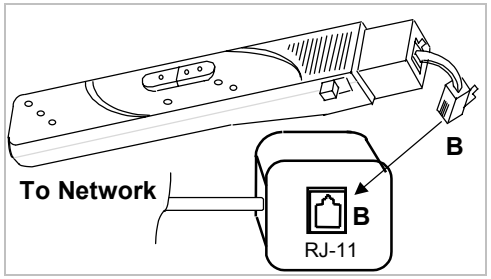
These features can simplify the testing and installation of modular phone jacks and phone line wiring.

Step I. Inserting the Adapter



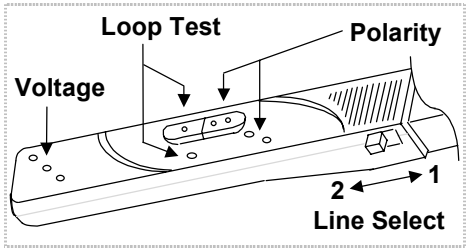
When you remove the cap from the unit, an adapter cord is pre-installed. It can be replaced or removed for the testing of extensions and cords. Begin by inserting, as shown, any end of the included adapter (A) into the modular RJ-11 Jack (A). Slide the Line 1/ Line 2 Selector Switch to the position of which line you are testing. If you are not sure, it's simple, just follow the next steps.

Step II. Connecting to the Network



It is best to begin testing at the primary entry point of the local telephone line (Network Interface Test Jack). In this way you can determine if any problem is due to your provider or your own local installation. As shown, insert the free end of the adapter (B) into the modular RJ-11 telephone jack under test or Network Interface Test Jack (B).

Step III.
Testing the Telephone Network



A) Polarity and Line Voltage

Lightly press the Polarity button. If no indication is shown by the Red or Green Polarity LED's and the Voltage display LED's, you may not have the correct Line selected. Gently slide the Line Select Switch to the other position and repeat this step. If you still have no indication, then neither line is working. There may be a loose connection, broken wire, or short in the wiring. Correct Polarity is shown as Green, reversed as Red. (Equipment such as modems, FAX machines, and some tone-dialing telephones may not work properly with a reversed polarity line.)

B) Loop Test (Loop Current)

If a Polarity indication was given, lightly press the button shown for Loop Test. This will simulate an "off-hook" telephone. The Red LED will light brightly if sufficient power is available to operate a telephone or other device. If the LED does not shine or is very dim, either another device is in use or the line has a partial fault. No Telephone Network Device can properly operate with no or insufficient Loop Current.

C) Line / Ring Voltage Display

This display indicates three states of line condition. With no button pressed, the BT-10 is in a stand-by mode waiting for a Ring signal. Use the chart on the back of the BT-10 as a reference.

When the Polarity button is pressed, this display will also show the Network's Line Voltage. A properly installed and balanced network will always be indicated with the Green LED. Yellow indicates a potentially damaging Network, Red a poor or damaged Network needing repair.

D) Testing Telephone line cords.

After verifying proper Network operation, remove the adapter and replace with a line cord. Repeat Step III A & B. *A <u>good</u> line cord should not change the results of your previous testing.*

<u>Caution Do Not Exceed 150 VRMS to the Test Jack.</u>

The BT-10 should not be permanently connected to a telephone network. Use it only to test the network and then disconnect from the telephone wiring.
Helpful Note for common wiring:
Line 1 Tip/Ring as Red and Green.
Line 2 Tip/Ring as Black and Yellow.