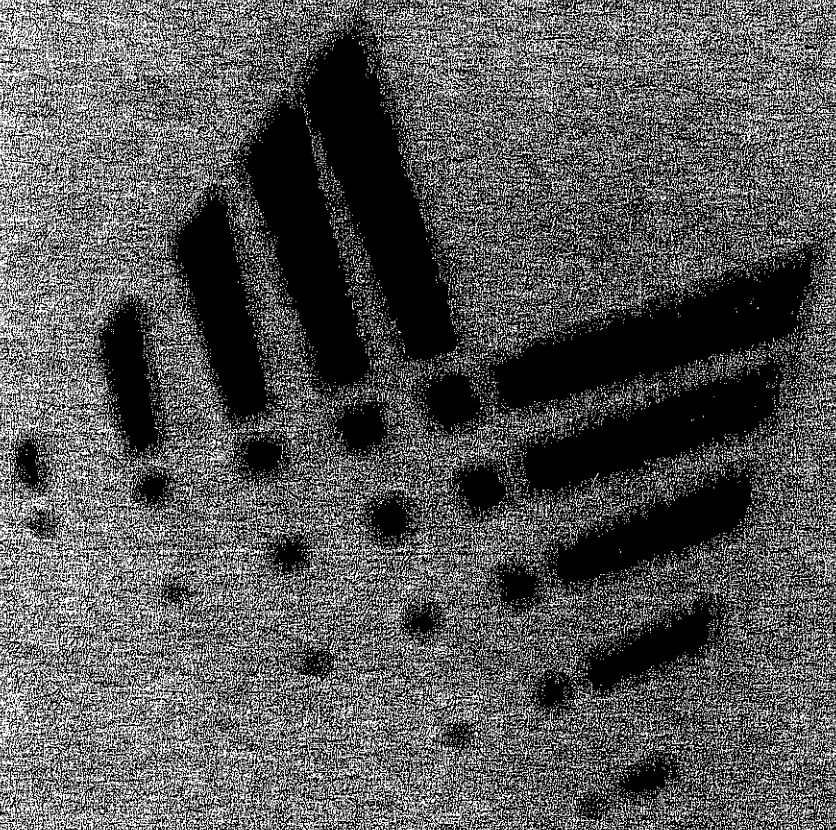
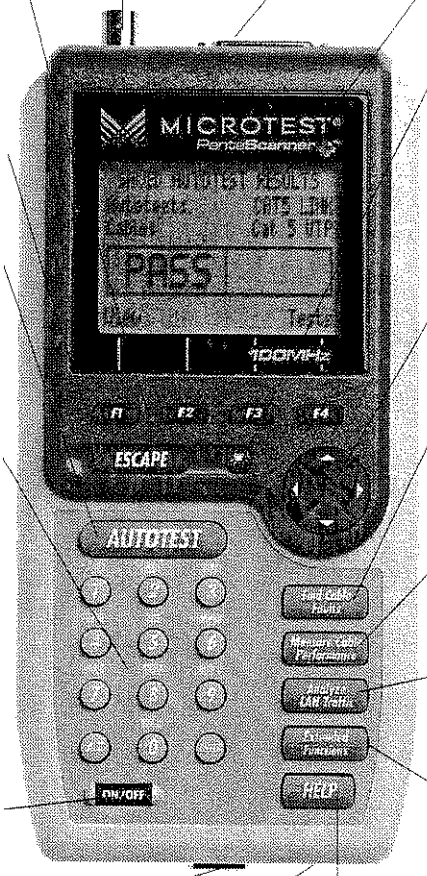
PENTASCANNER™ PRODUCT FAMILY

FUNCTIONAL OVERVIEW



MICROTEST™

A Quick Look at the Scanner . . .



Function Keys
There are four basic function keys. Each function depends on which screen is currently displayed.

Escape
Exits the current display or function.

Autotest
Allows user-definable, all-day testing (up to 500 tests).

Alphanumeric Keys
Pressing these keys allows alpha and numeric characters to be entered into the display. In some displays, numeric keys are used for direct dial menu selections.

On/Off
Powers the Scanner on or off.

DB-9 Serial Connector
Allows attachment of a serial communications cable for printing or for updating the Scanner's software.

BNC Jack

Test Connector

AC Plug
Permits an AC adapter to be used as a power source and for recharging the battery.

Help
Context-sensitive help provides additional information on the current screen when pressed during any function.

Graphical Display

Backlight
Press and hold to display version and serial numbers; press and release to backlight the display.

Arrow Keys
Allow navigation within displays.

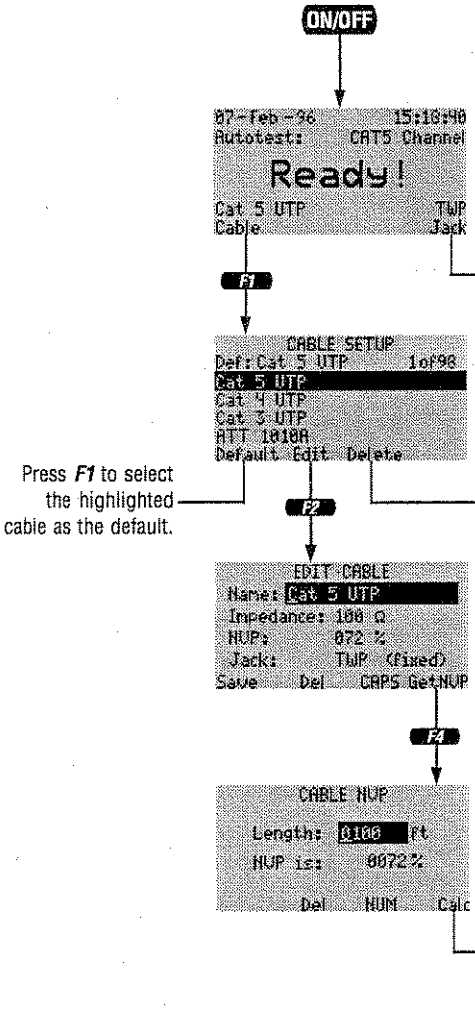
Find Cable Faults
Locates opens, shorts, split pairs and miswires.

Measure Cable Performance
Runs individual tests.

Analyze LAN Traffic
Monitors network traffic.

Extended Functions
Customizes user preferences, Autotests, and calibration.

Cable Setup



Press ***F4*** to toggle the Jack between twisted-pair (TWP) and coaxial (Coax) cable.

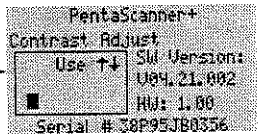
Press ***F1*** to select the highlighted cable as the default.

Press ***F3*** to delete the highlighted cable.

Press ***F4*** to calculate the cable's Nominal Velocity of Propagation (NVP).

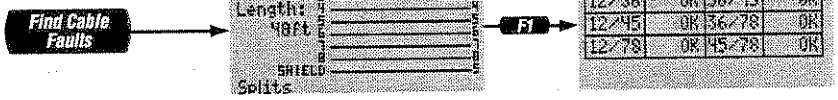
Scanner Information

Press and hold

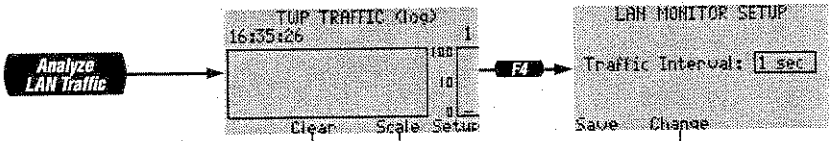


Use the arrow keys to adjust the contrast level.

Find Cable Faults



Analyze LAN Traffic

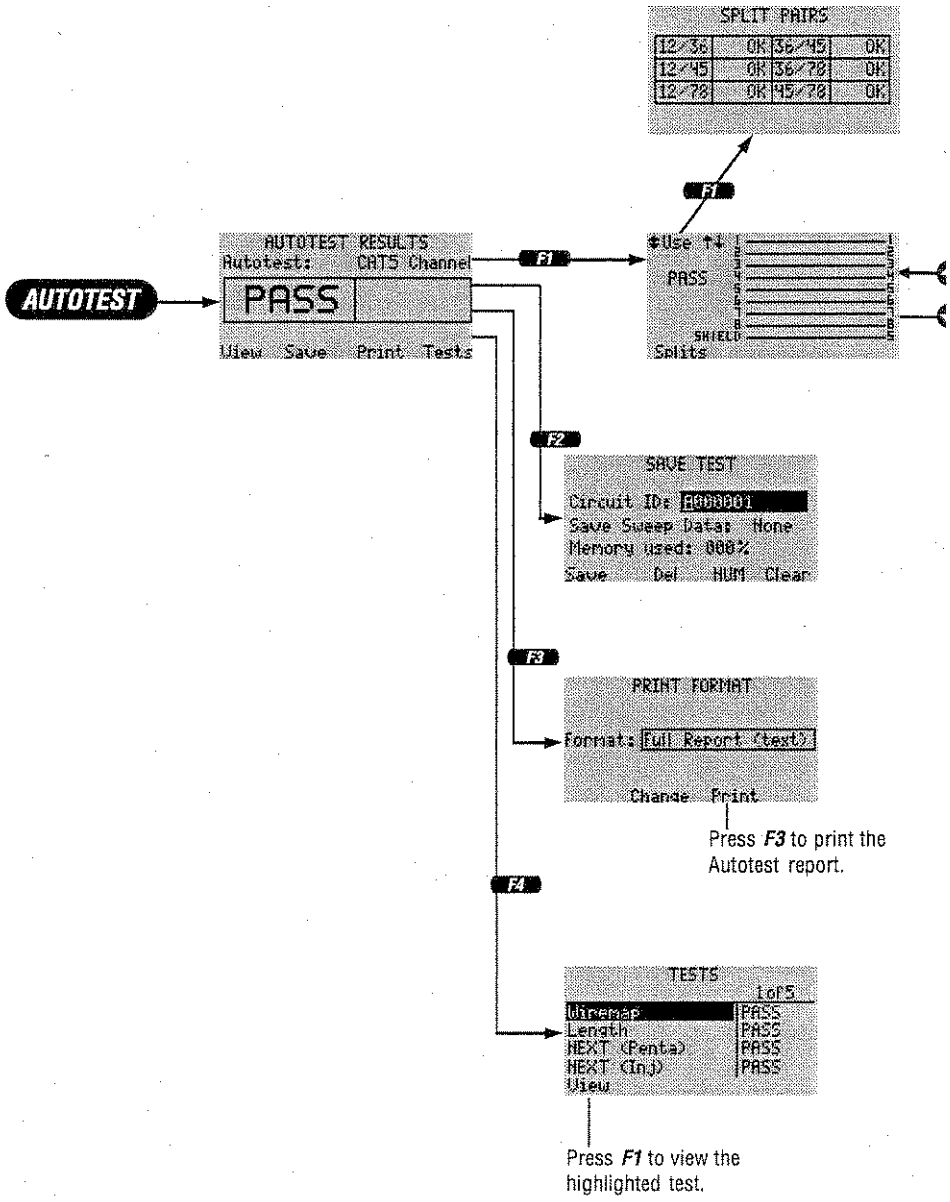


Press *F2* to clear the display.

Press *F3* to toggle the display between a linear and logarithmic scale.

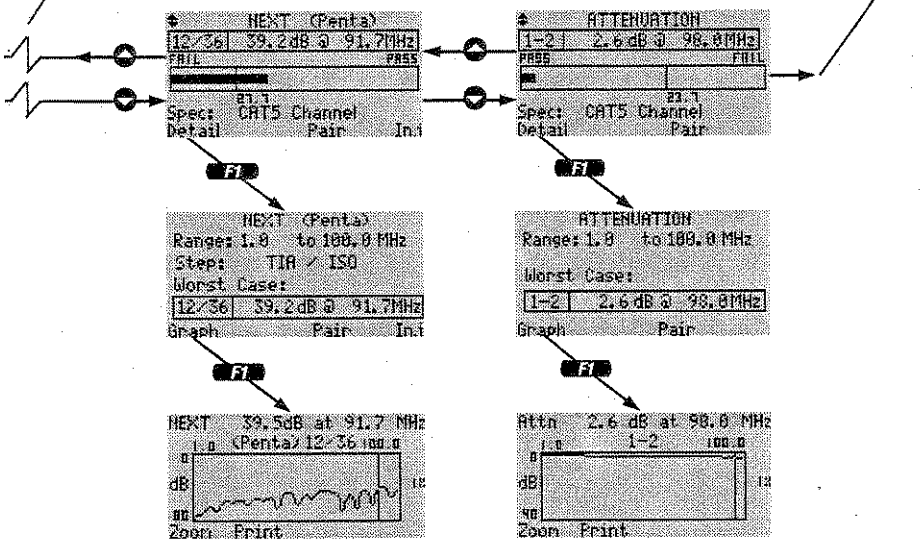
Press *F2* to change the interval at which traffic measurements are recorded.

Autotest


SPLIT PAIRS
12/36 OK 36/45 OK
12/45 OK 36/78 OK
12/78 OK 45/78 OK
F1
AUTOTEST RESULTS
Autotest: CAT5 Channel
AUTOTEST
PASS
View Save Print Tests
F1
$Use ↑↓
PASS
SHIELD
Splits
F2
SAVE TEST
Circuit ID: A000001
Save Sweep Data: None
Memory used: 000%
Save Del HUM Clear
F3
PRINT FORMAT
Format: Full Report (text)
Change Print
Press F3 to print the Autotest report.
F4
TESTS 1of5
Wiremap PASS
Length PASS
NEXT (Penta) PASS
NEXT (Inj) PASS
View
Press F1 to view the highlighted test.

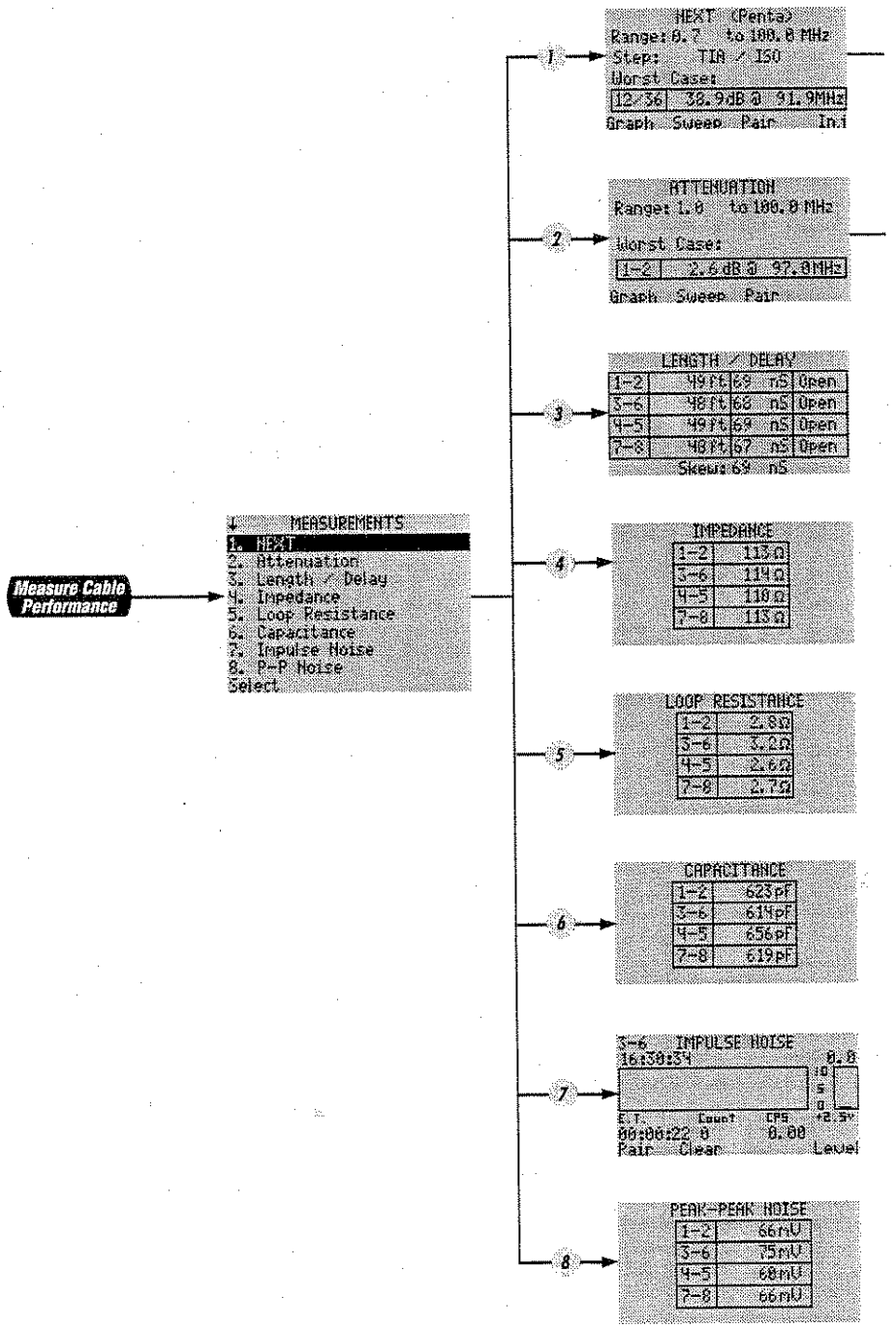
See Page 11 for ***Length*** and ***Propagation Delay*** Displays

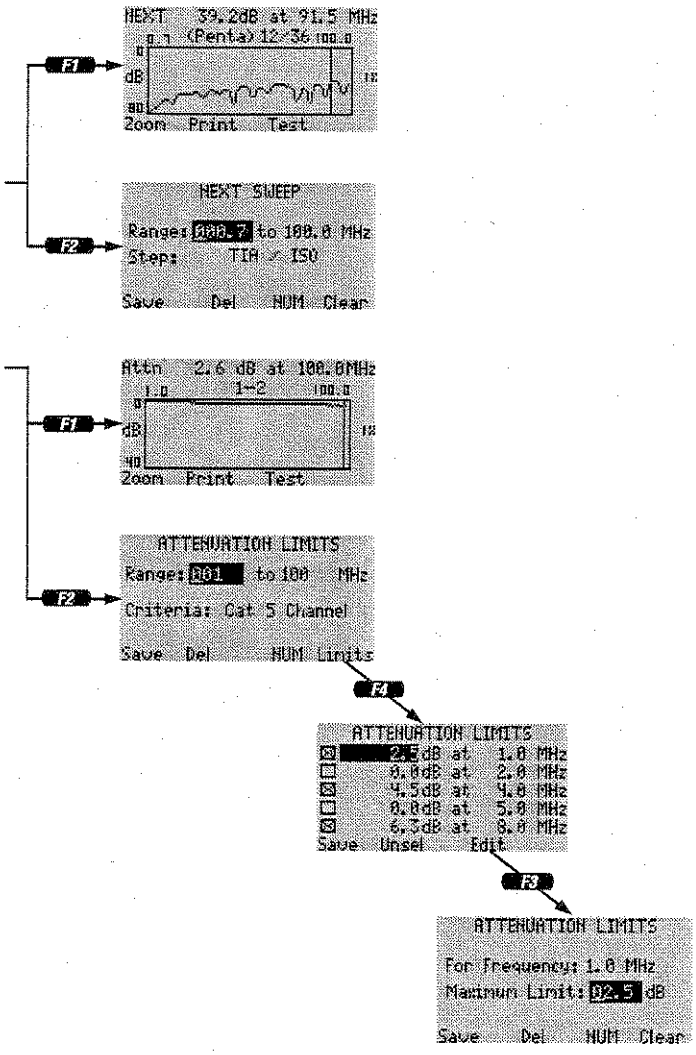
See Page 11 for ***ACR, Impedance, Loop Resistance, and Capacitance*** Displays



Inj/Penta	Press ***F4*** to switch the display between results from the Injector end and the Scanner end of the cable.
Pair	Press ***F3*** to toggle through the results for each wire pair.
Print	Press ***F2*** to print the graph.
Zoom	Press ***F1*** to magnify the area around the cursor.

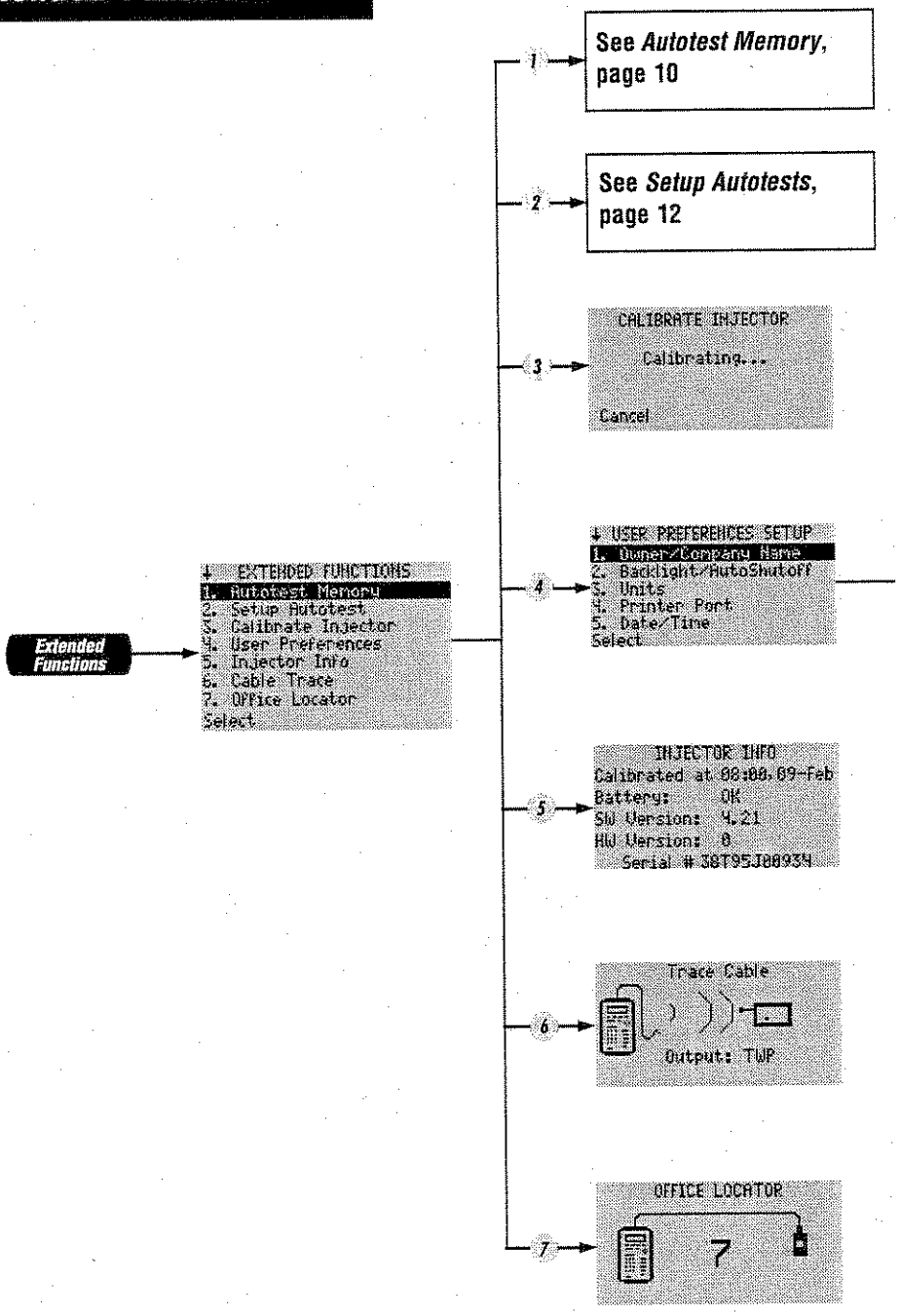
Measure Cable Performance

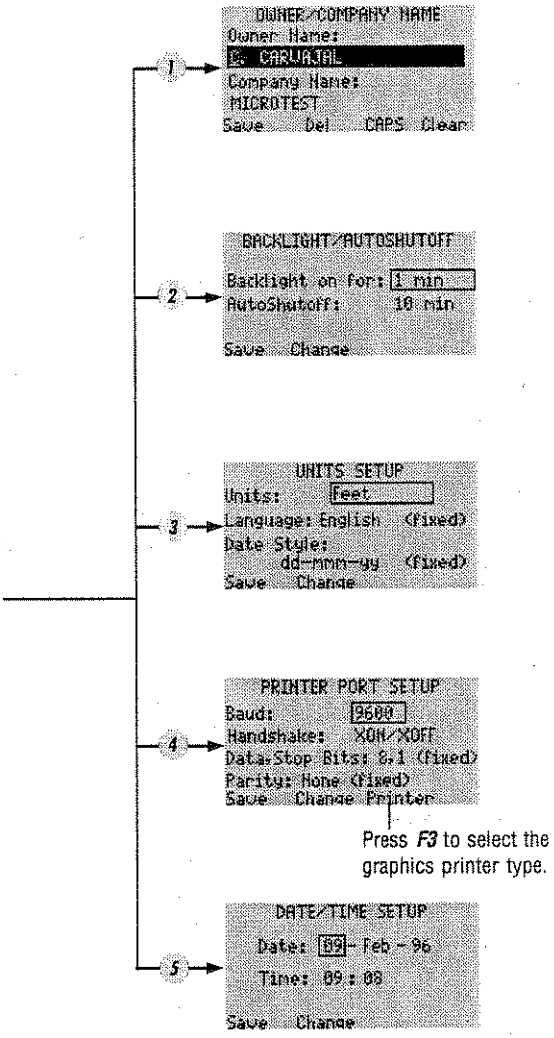




Inj/Penta	Press ***F4*** to switch the display between results from the injector end and the Scanner end of the cable.
Level	Press ***F4*** on the Impulse Noise screen to change the voltage level threshold.
Pair	Press ***F3*** to toggle through the results for each wire pair.
Print	Press ***F2*** to print the graph.
Test	Press ***F3*** to test the pair again.
Zoom	Press ***F1*** to magnify the area around the cursor.

Extended Functions

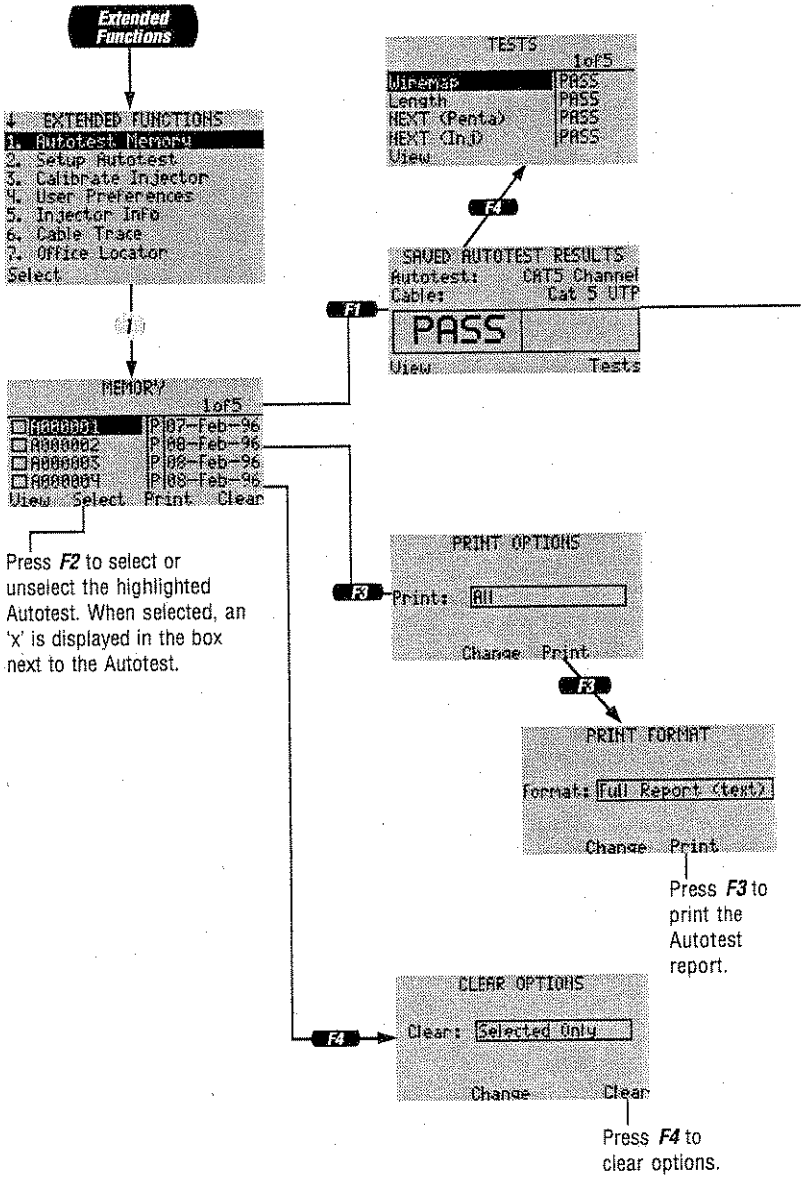




Press *F3* to select the graphics printer type.

Change	Press *F2* to toggle through the setup choices for the active field. The active field is displayed enclosed in a box.

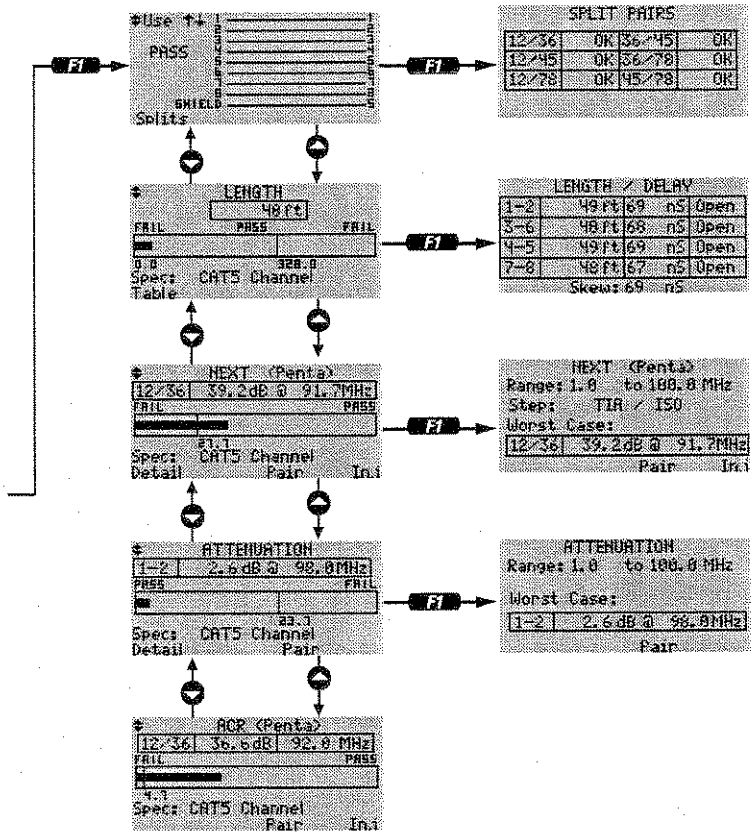
Extended Functions: Autotest Memory



Press *F2* to select or unselect the highlighted Autotest. When selected, an 'x' is displayed in the box next to the Autotest.

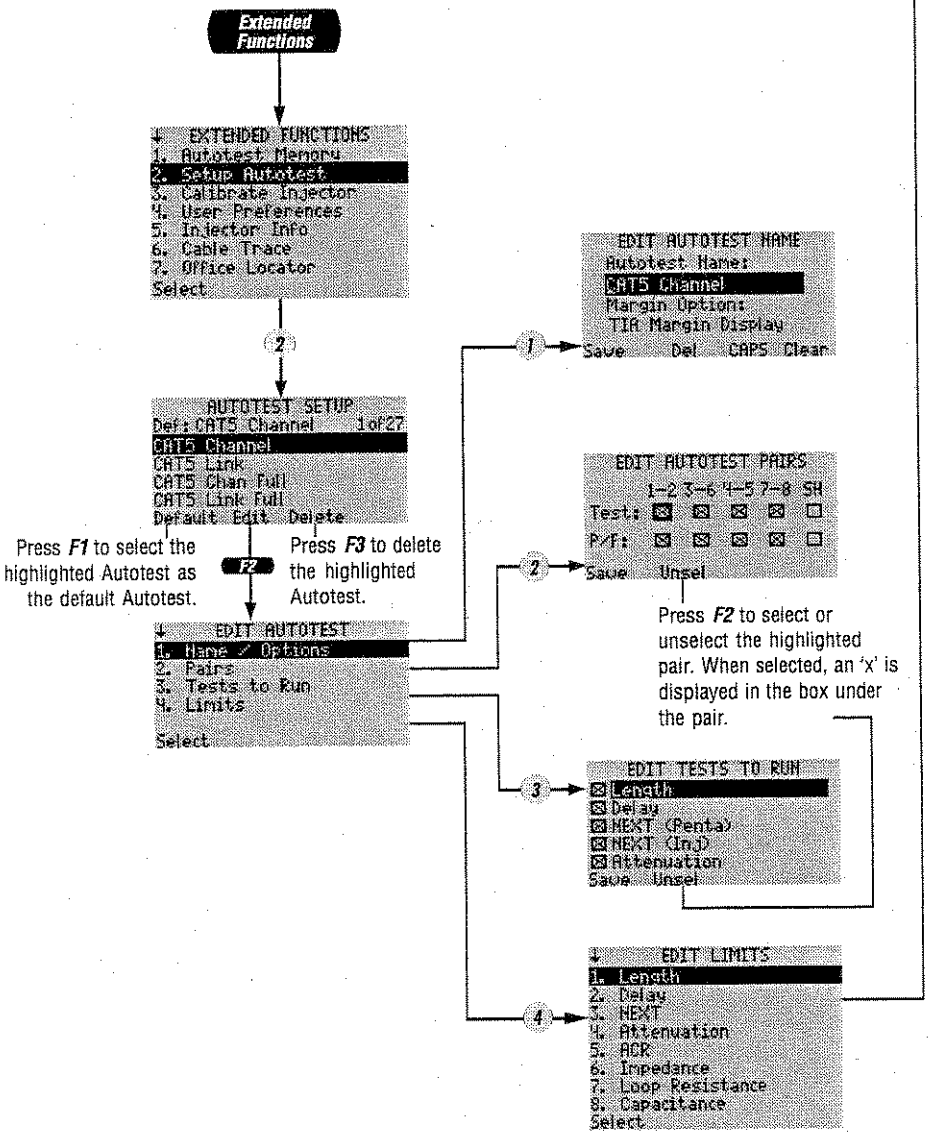
Press *F3* to print the Autotest report.

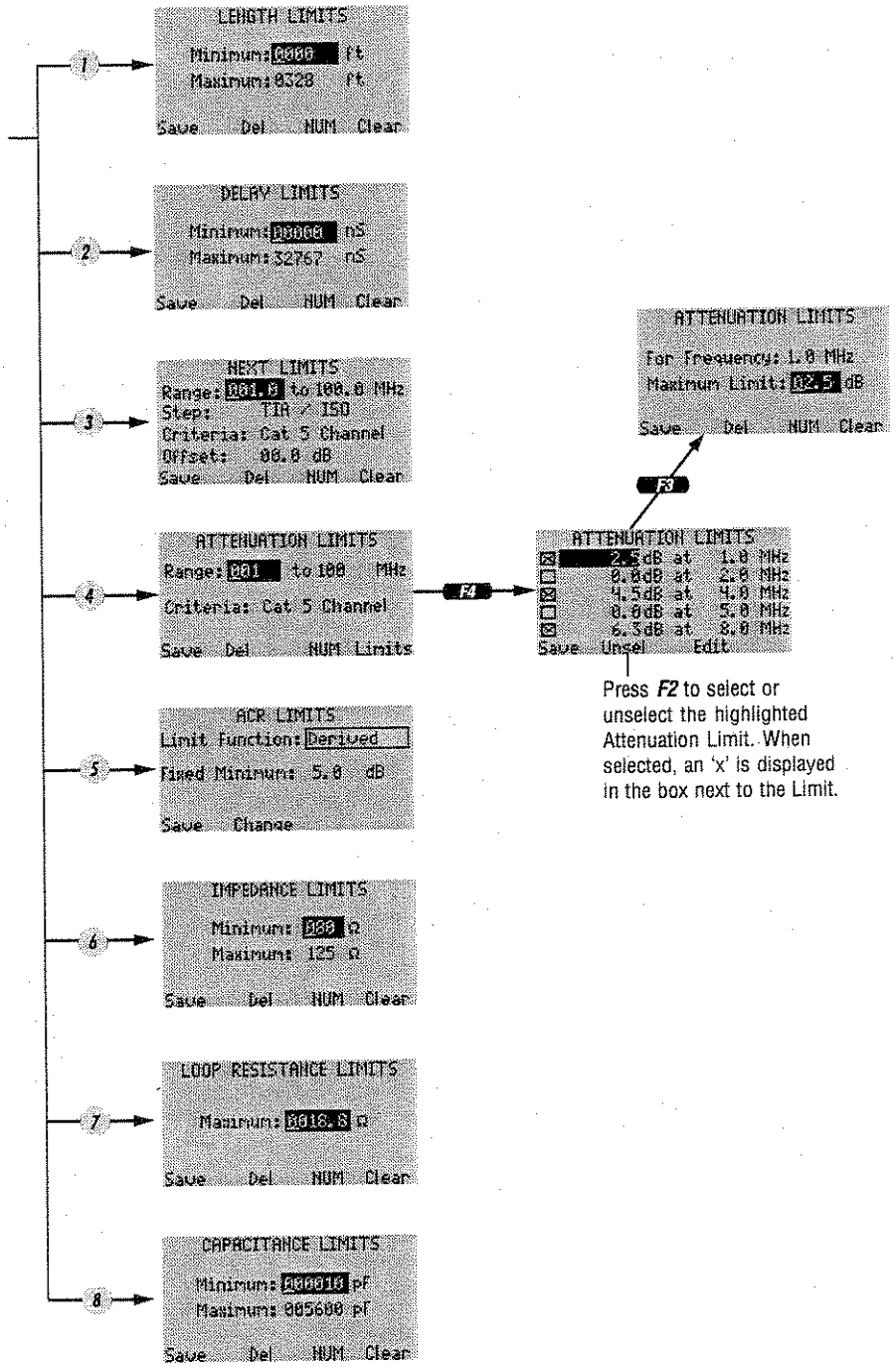
Press *F4* to clear options.



Graph	Press ***F1*** to see the NEXT or Attenuation graph.
Inj/Penta	Press ***F4*** to switch the display between results from the Injector end and the Scanner end of the cable.
Pair	Press ***F3*** to toggle through the results for each wire pair.

Extended Functions: Setup Autotests





Press *F2* to select or unselect the highlighted Attenuation Limit. When selected, an 'x' is displayed in the box next to the Limit.

Keypad Editing

Use this editing method if your Scanner has an alphanumeric overlay on the keypad.

Position the cursor at the character to be edited.

Alphabetic and special characters are printed above each numbered key on the keypad. For example, ABC is printed above the 2 key. With the keypad in CAPS mode, press and hold the 2 key to display an A, B, or C. Release the key to place the displayed character in the field that is being edited.

The 1 key allows entry of special characters:

- hyphen, _ underscore, . period, , comma, * asterisk, (left parentheses,) right parentheses, / slash, # pound sign.

Press Del (F2) to delete the character at the cursor.

Press CAPS (F3) (or caps (F3) or NUM (F3)) to toggle the keypad between uppercase letters (CAPS), lowercase letters (caps), or numerics (NUM).

Press the ◀ or ▶ arrow key to move left or right within the string of characters.

Press Save (F1) to save the new entries.

To Enter an Autotest's Circuit ID

If your Scanner has an alphanumeric overlay on the keypad, use the keypad to enter field values. When editing the Circuit ID, press F3 to change editing modes (CAPS, caps, NUM or Inc). Increment (Inc) mode automatically increments the last character position, and lets you manually increment or decrement any character using the ▲ or ▼ arrow key.

To start the Automatic Increment function:

1. Run the initial Autotest.
2. Enter the initial Circuit ID.
3. Set F3 to Inc mode.
4. Press F1 to save the Autotest.

After performing the next Autotest, enter the SAVE TEST screen. The Scanner will automatically increment the last field in the Circuit ID. Press F1 to save the Autotest.

Keypad Editing

When you enter the initial Circuit ID, you can divide the fields by using non-alphanumeric characters. The non-alphanumeric characters are considered field separators. For example, the Circuit ID BLDG-001 is divided into two fields by the '-' character. In Automatic Increment mode, the Scanner will automatically increment the last field, "001", from "001" to "999" and then roll back to "000". Both alphabetic and numeric characters (A-Z, a-z, 0-9) will be incremented if the circuit ID contains both types of characters.

While in Automatic Increment mode, you can manually increment the last character by pressing the Scanner's ENTER key. In addition, you can use the ◀ and ▶ keys to move to any character in the Circuit ID, and you can use the ▲ key to manually increment (or the ▼ key to decrement) the character at the cursor.

Note: When in Inc mode, pressing F3 will allow you use the arrow keys to move the cursor from the Circuit ID field to the Save Sweep Data field.

If your Scanner does not have an alphanumeric overlay, press Edit (F2) to display the edit screen.

After editing, press Save (F1) to store your changes and exit or press the ESCAPE key to return to the AUTOTEST RESULTS screen.

Use this editing method if your Scanner does not have an alphanumeric overlay on the keypad.

Position the cursor at the character to be edited.

Press the *A-Z* key to enter an alphabetic character and press the ▲ or ▼ arrow key to change it. You can hold down the ▲ or ▼ arrow key to scroll through the available characters. Or, press a number key to enter a numeric value.

Press the ◀ or ▶ arrow key to move left or right within the string of characters.

Press Del (F1) to delete the character at the cursor.

Press Clear (F4) to erase the contents of the field.

Press Done (F2) to exit the editing screen.

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