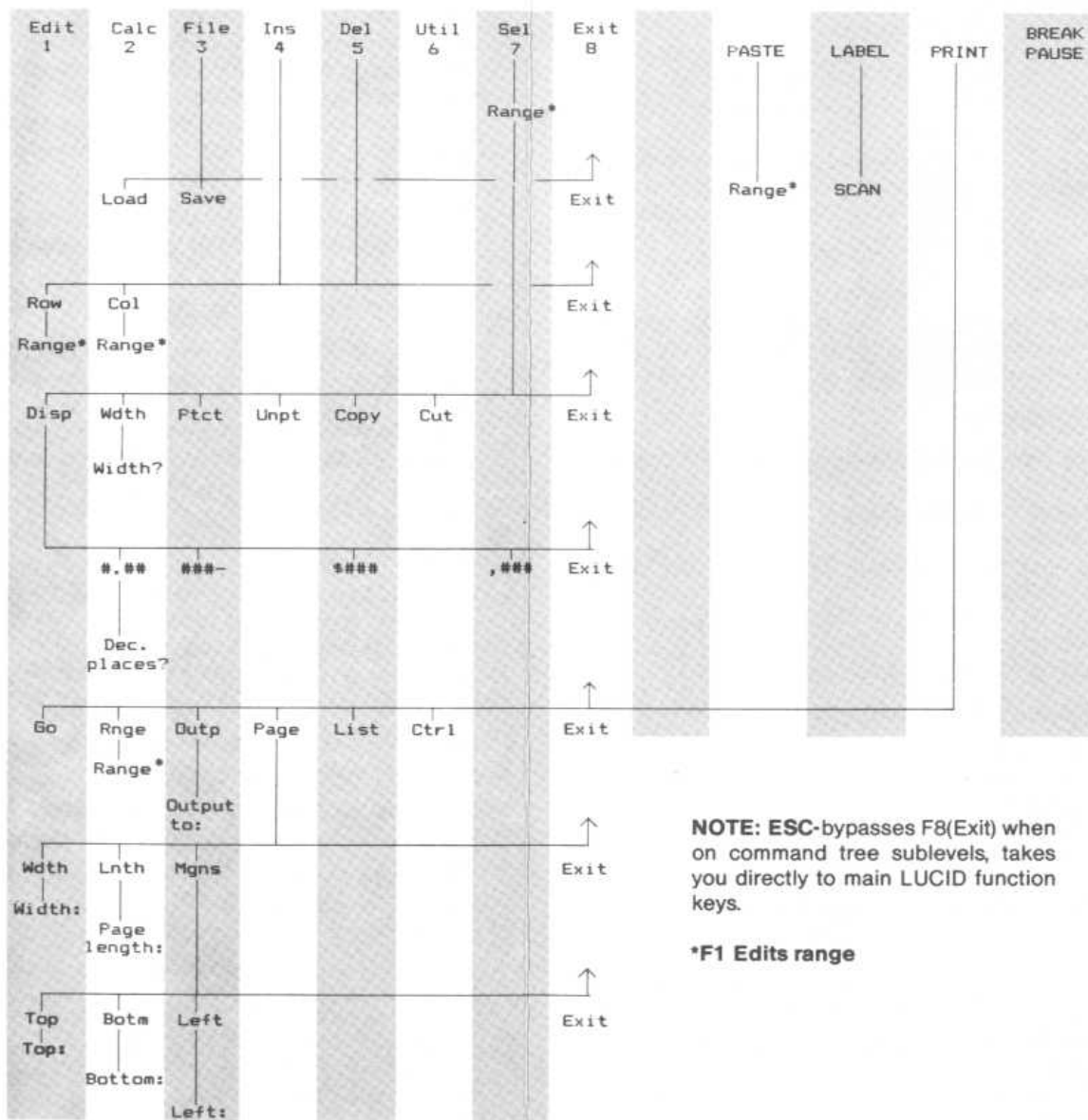




exceptional spreadsheet

On Snap-in™ ROM for the TRS-80 Model 100

### Command Key Tree.



**NOTE:** ESC-bypasses F8(Exit) when on command tree sublevels, takes you directly to main LUCID function keys.

**\*F1 Edits range**

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exceptional spreadsheet

for the TRS-80 Model 100

### Quick Reference Guide

**Installation** - turn off M-100. Pry off lid on back, press in ROM, printing on ROM label same direction as Model 100 serial #, tiny finger into slot. In BASIC type Call 63012. ENTER.

**File Creation:** Cursor on LUCID on main menu. Press ENTER. Type new filename. Press ENTER. Creates new .CA file.

**Open existing file:** Cursor on .CA filename on main menu. Press ENTER.

#### CURSOR MOVEMENT:

Left, right, up and down arrows move one cell.

Multiple keying queues arrow commands.

Continuous pressure of arrow keys-rapid movement.

SHIFT up, down, left, right move one screen.

CTRL up arrow-to A1.

Goto is > or SHIFT period. Type in target location, or just ENTER for previous location.

SCAN cell contents-press LABEL key or /, contents appear on bottom line. Move from cell to cell w/arrow keys.

#### TYPING TEXT OR VALUES

Start with period, plus, minus or digit for numbers and formulas.

Start with ^, ' or " to make digits appear as labels or to justify text.

- ^ centers
- ' left justifies
- " right justifies

-Blanking or erasing a cell- spacebar ENTER.

Replace cell contents-type new and enter.

Changing cell contents-F1 (Edit)

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**EDITING**

Left and right arrows move cursor through typed line.  
SHIFT left or right arrows-to beginning or end of typed line.

DEL/BKSP erases to left of cursor.

SHIFT DEL/BKSP erases character cursor is on.

ENTER: Exits from edit

UP/DOWN arrow: Exits from edit, moves from cell.

CTRL LEFT/RIGHT arrow: Exits from edit, moves from cell.

CTRL D: writes date at cursor.

CTRL W: wander mode. Exit from wander mode by pressing any non arrow key.

ESC: aborts entry.

**RANGE:**

Edit range with F1, or move to top left, anchor with period. Move to bottom right, press ENTER.

Written like this:

1. Upper left cell: lower right cell  
Used for cell formatting, copying and cutting or for printing.

2. Target upper left cell, e.g. A1:A1.  
Used for single paste, cell, row, column or rectangle:

3. 1st upper left cell to paste: last upper left cell to paste.  
Used for multiple pastes (replication).  
To replicate a rectangle into many rectangles, paste each one individually.

4. First row or column: last row or column.  
Used for Delete (F4) or Insert (F5), or Width (F2)  
Width is column only.  
e.g. A1:D1 means 4 columns, A1:A4 means 4 rows.

Cut and paste options:

Copy or Cut from:	Paste to:
Cell	Cell
	Row
	Rectangular range
Row	Cell-copies row
	Column-replicates row
Column	Cell-copies column
	Row-replicates column
Rectangle	Cell-copies rectangle
	Rectangle-makes mess

**DISPLAY:**

Display-F7 (sel) range. See command tree for decimal places (default 2), trailing minus, dollar format, or commas on thousands (default).

**Display options:**

1. Future entries, global standard default-no action needed.
2. Future entries, global new default-select A1:DV254.
3. Existing entries, no future, less than global-select range desired.
4. Existing entries, no future, global-Select A1:DV253.
5. Existing and future, global, do both 2 & 4.

**FUNCTIONS, Syntax examples:**

+SUM(A1:A10)  
+MAX(A1:A10)  
+MIN(A1:A10)  
+REF("XXXXX",A1) X's—  
filename in other spreadsheet  
+CNT(A1:A10) CNT=count  
AVERAGE or mean +SUM(A1:A10)/  
CNT(A1:A10)

+TBL(A4, A6, F1:J10) A4 is input cell, searched down side of table, A6 is second input cell searched across top of table. F1:J10 is table range. Upper left hand cell (F1) of table is blank  
+INT(formula or number) returns integer portion of a number.

+RND(1)+5 returns random number between 1 and 5.  
(1 = any # 0-1, 5 = any #)  
+SQR(number or formula) returns square root.  
+LOG(number or formula) gives natural log of a number.  
+EXP(number or formula) gives antilog.  
+COS(number or formula) gives cosine of value.  
+SIN(number or formula) gives sine of value.  
+TAN(number or formula) gives tangent of value.  
+ATN(number or formula) gives arctangent of value.  
Absolute value = SQR(A1^2) gives absolute value of A1 without regard to its sign.

Absolute vs relative— All cell references are automatically relative unless designated by \$ as absolute, e.g. +\$C8.

**PRINTER CONTROL CODES:**

Underline, boldface, etc. Permits multiple in same spreadsheet. See your printer manual for control characters. If on chart in LUCID appendix use the GRPH equivalent shown. If not use those from printer manual. Works in any cell as embedded codes when F6 (Ctrl) is in reverse video. Effects only printing range.

**MESSAGES:**

ERR-mathematical error, incomplete table (TBL), paste past spreadsheet boundaries.  
Bad range-range past boundaries  
System error-cassette or other device problem or something not handled by system ROM.

Beeps can't exit from edit line-improper formula syntax, cursor shows mistake location.

SHIFT BREAK-aborts printing operation, cassette load or save, acts like ESC key on other occasions.

FG(Util)-Utility personality modules-New function keys appear when module loaded into RAM. Sort and search, graph, DIF, SYLK and others.

Suppress zeros-use TBL to hold cell formulas and blanks, if 0 return blank, if not return formula value.

Large number notation-%3.0E14 = 300 trillion.  
Positive E number move that number decimal places to right, negative to the left.