

Essen1e Application for the TI-83 Plus End Users' Guide

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Installation Instructions

Do not attempt to install an application if a low-battery message appears on your calculator.

Before you install the application, be sure to read and accept the license agreement on your installation disk.

You must use the TI-GRAPH LINK™ software (version 2.0 or later) and the TI-GRAPH LINK cable to install an application on your calculator.

If you need the TI-GRAPH LINK software or a cable, check the TI web site at:
<http://www.ti.com/calc/docs/link.htm>

Using a PC to Install the Application to Your TI-83 Plus

Follow these instructions to install the application that was either downloaded from the web site or received on disk.

- If you downloaded the file from the web, the application file is on your computer.
- If you received the file on a disk, insert the disk into the computer's floppy drive.

Then:

1. Connect a TI-GRAPH LINK cable between the computer and calculator.
Note: If you have the gray TI-GRAPH LINK cable, you may need to use the 25-pin to 9-pin adapter to connect to the computer. (The black cable, which works with Windows 95 or higher, has a built-in 9-pin connector.)
2. If the TI-83 Plus is on, make sure it is on the home screen.
3. Start the TI-Graph Link for the TI-83 Plus software program.
4. Click **Link>Send Flash Software>Applications and Certificates...** The Send Flash Software screen is displayed.
5. Click the down arrow under Drives: and navigate to find the file that you either downloaded or received on disk.
6. Click the file name in the File name: list.
7. Click **Add** to copy the file name into the File selected: list.
8. Click **OK**. The Sending window displays the progress as the file(s) are sent to your calculator. The TI-GRAPH LINK window displays when the installation is complete.
9. Click **OK** to return to the TI-GRAPH LINK main screen.

If you have any difficulties installing the application, refer to Error Recovery Instructions on page 11.

Using a Macintosh® to Install the Application to Your TI-83 Plus

Follow these instructions to install the application that was either downloaded from the web site or received on disk.

- If you downloaded the file from the web, the application file is on your computer.
- If you received the file on a disk, insert the disk into the computer's floppy drive.

Then:

1. Connect a TI-GRAPH LINK cable between the computer and your calculator.
Note: If you have the gray TI-GRAPH LINK cable, you may need to use a USB to serial port adapter to connect to the computer.
2. If the calculator is on, make sure it is on the home screen.
3. Start the TI-GRAPH LINK 2 for Macintosh software program (version 2.2 or higher) and establish a connection to your calculator.
4. Double click the disk icon on the computer's desktop or navigate to find the application file that you downloaded or received on disk.
5. Click the application file name you want to install.
6. Drag file to the calculator window in TI-GRAPH LINK. Follow any displayed instructions.

If you have any difficulties installing the application, refer to Error Recovery Instructions on page 11.

Transferring the Application from Another TI-83 Plus

Do not attempt to transfer an application if a low-battery message appears on either the receiving or sending calculator.

Note: To select a menu option, press the number or letter corresponding to the option or press \blacktriangle or \blacktriangledown to highlight the option, then press ENTER .

1. Connect the calculators with the unit-to-unit cable.
2. On the receiving calculator:
 - a. Press 2nd [LINK] to display the SEND / RECEIVE menu options.
 - b. Press \blacktriangleright to display the RECEIVE menu.
 - c. Select **1:Receive**.
3. On the sending calculator:
 - a. Be sure to quit the **Essen1e** application (2nd [QUIT]).
 - b. Press 2nd [LINK] to display the SEND menu.
 - c. Select **C:Apps** to list the available applications.
 - d. Press \blacktriangledown to move the cursor to **Essen1e** and press ENTER .
 - e. Press \blacktriangleright to display the TRANSMIT menu.
 - f. Select **1:Transmit**.

Overview

The Essen1e was designed to be used with the Triola's Essentials of Statistics. This application allows you to load data sets for the exercises onto your TI-83 Plus as lists. You won't have to tediously enter lists or download individual lists to your calculator. Essen1e is flexible, allowing you to load lists individually or load whole groups of lists at one time. You also have the option to place them directly into your list editor. And, you'll like this feature: as long as Essen1e is on your calculator, all of the lists are available to you, even if you've already loaded them into your calculator's memory. When you're finished using a list, you can delete it from RAM without worrying about whether you'll need it later.

Using Essen1e

Starting the Application

*Note: To select a menu option, press the number or letter corresponding to the option or press \uparrow or \downarrow to highlight the option, then press **ENTER**.*

1. Press **[APPS]** to display a list of applications on your calculator.

```
APPLICATIONS
1:Finance...
2:Essen1e
3:Prob Sim
```

2. Select Essen1e. A splash screen is displayed.

```
Mario F. Triola
ESSENTIALS
OF STATISTICS
(c)2001 Addison Wesley
PRESS ANY KEY
```

3. Press any key to continue. The Triola Data screen is displayed.

```
Triola Data Quit
1:COLA
2:TEXTBOOK
3:DIAMONDS
4:SUGAR WT
5:GARBAGE
6:BEARS
7↓CIGARETTES
```

Selecting Data Sets to Load

Each type of data has several data sets (i.e. Diamonds has datasets for price, carat, depth, color and clarity). The first menu screen lists the data type. When you select a data type, the next screen lists the data you can load. From the Sel All Load screen, you select the data sets you want to load. You can quickly select or deselect all of them by using the All menu option.

1. Select the appropriate menu option(s) for the data set(s) that you want to load. The Sel All Load screen is displayed.

```
| Priola Date Quit
1:COLA
2:TEXTBOOK
3:DIAMONDS
4:SUGAR WT
5:GARBAGE
6:BEARS
7↓CIGARETTES
```

2. Move the cursor to each data set that you want to load and press **ENTER**. You may select as many data sets as you want.

```
SEL All Load
■ CRGWT
■ CRGVL
■ CDTWT
* CDTVL
  PRGWT
  PRGVL
  PDTWT
```

*Note: To select all of the data sets on this screen, use **↓** to move the cursor to All, then select 1:All.*

You can also deselect all of the datasets on this screen by selecting 2:All-.

```
Sel All Load
1:All+
2:All-
```

Loading Data Sets Onto the TI-83 Plus

Data sets are loaded as lists into your calculator's RAM. Once they're in RAM, you can use them just like any other list. Assuming that you will want to view or manipulate them, Essen1e includes a feature that lets you place the lists in the list editor at the same time that you load them into RAM.

You can use Essen1e's set up editor to

- add the data sets to the end of the list editor
- replace the contents of the list editor with the selected data sets

1. Use to move the cursor to Load.
2. Select **1:SetUpEditor**. The Sel All SetUp screen is displayed.

```
Sel All Load
1: SetupEditor
2: Load
```

3. Select one of the following options:
1:Add to Editor to append the selected data sets to the end of the lists in your list editor

```
Sel All Setup
1: Add to Editor
2: Exchange Lists
3: No Change
```

2:Exchange Lists to replace the lists that are currently in your list editor with the selected data sets

3:No Change to load the lists onto your calculator but not into your list editor.

4. Select **2:Load** to load the lists according to the option you selected in step 3.

```
Sel All Load
1: SetupEditor
2: Load
```

A message is displayed to confirm that the lists you selected were loaded.

```
List(s) have
been loaded.

Done

PRESS ANY KEY
```

5. Press any key to return to the Top Menu screen.

```
1: Home 2: Delete Quit
1: COLA
2: TEXTBOOK
3: DIAMONDS
4: SUGAR WT
5: GARBAGE
6: BEARS
7: CIGARETTES
```


- To load more lists, repeat the steps in the Selecting Data Sets to Load section and steps 1-5 above.

Handling Duplicate List Names

What if you already have a list on your calculator that has the same name as the data set you're trying to load? Essen1e will prompt you to take action. You can

- rename the new list
- overwrite the old list
- skip the new list altogether and load the remaining ones

And, of course, you have options to overwrite every duplicate list or to quit Essen1e.

- Select one of the following options:

1: Rename to rename the list (current name is displayed at the bottom left of the screen)

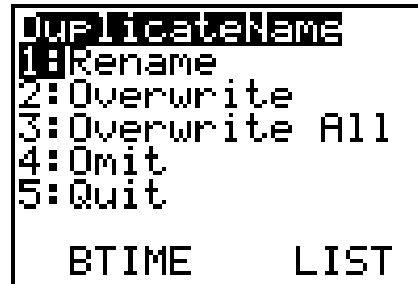
2: Overwrite to overwrite the current list (the old list is erased)

3: Overwrite All to overwrite each duplicate list encountered


4: Omit to skip the current list and continue loading the remaining ones

5: Quit to return to the Sel All Load screen.

- To rename the list, select **1: Rename**.
- Type a new name (up to 5 characters) at the **Name=** prompt.



```
DuplicateName
1:Rename
2:Overwrite
3:Overwrite All
4:Omit
5:Quit
BTIME LIST
```



```
Name=
```

4. Press **[ENTER]**. The list is renamed and the remaining lists are loaded (unless there is another duplicate name).



Name=BTIM0

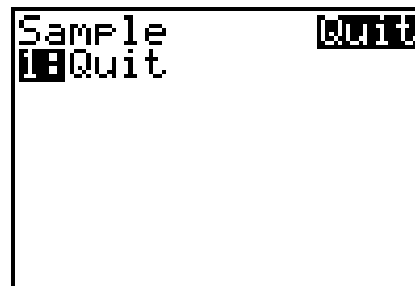


List(s) have
been loaded.
Done
PRESS ANY KEY

Quitting Essen1e

1. From any menu, use **[▶]** to move the cursor to Quit.
2. Select **1:Quit** to quit the application

*Note: You can also press **[2nd][QUIT]** from any screen to quit the application.*



Sample 1:Quit Quit

Deleting Essen1e from the TI-83 Plus

To delete Essen1e from your calculator:

1. Press **[2nd][MEM]** to display the MEMORY menu.
2. Select **2:Mem Mgmt/Del...**
3. Use **[▲]** or **[▼]** to select **Apps...**
4. Use **[▲]** or **[▼]** to highlight **Essen1e**.
5. Press **[DEL]**.
6. Select **2:Yes** to confirm the deletion.
7. Press **[2nd][QUIT]** to return to the home screen.

Error Recovery Instructions

Application Errors and Warnings

Error Message	Description	Recovery
ERR: ARCHIVED	You have attempted to load a list that is already archived.	To skip the list and leave the archived one on the calculator, select 1:Omit. To overwrite the archived list: 1. Press [2nd] [MEM] 2. Select 6:Unarchive 3. Type the name of the list 4. Press [ENTER] The list is now unarchived so that it can be overwritten.
DuplicateName	You have attempted to load a list that is already in RAM.	Select one of the following options: Rename to rename the current list OverWrite to overwrite the list that is already on the calculator OverWrite All to overwrite any lists that are already on the calculator that are duplicates Omit to skip the list and leave the one that is already on the calculator Quit to stop loading lists
ERR: BREAK	You have pressed [ON] when a list was being loaded to RAM. The list that was being loaded was not created.	If you want to load the list, run the application again.
ERR: MEMORY	There is not enough free RAM to load the list.	Remove some data from RAM and run the application again.
ERR: SYNTAX	The list being loaded contains bad data.	The list cannot be loaded. The publisher must correct the application data.
Editor Full: Not all lists fit in editor	The list editor can contain a maximum of 20 lists. The application loads lists into the editor until it is full. It loads remaining lists into RAM outside of the list editor.	If you wanted all of the selected lists in the list editor, view the list editor and manually insert the remaining lists. You will overwrite some existing lists to accomplish this.

Downloading Errors

Low Battery Condition

Do not attempt a Flash download if the low-battery message appears on the calculator. Low battery indication is shown on the initial screen. If you receive this error during an installation, change the batteries before trying again.

Archive Full

This error occurs when the TI-83 Plus does not have sufficient memory for the application. In order to make room for another application, you must delete an application and/or archived variables from the TI-83 Plus. Before deleting an application from the TI-83 Plus, you can back it up by using the Link > Receive Flash Application... menu in TI-GRAPH LINK for the TI-83 Plus. Once saved, you can reload it to the TI-83 Plus later using the Link > Send Flash Software menu in TI-GRAPH LINK.

Communication Error

This error indicates the Flash installer is unable to communicate with the TI-83 Plus. The problem is usually associated with the TI-GRAPH LINK cable and its connection to the TI-83 Plus and/or to the computer. Make sure the cable is firmly pushed in to the calculator and the computer.

If this does not correct the problem, try a different TI-GRAPH LINK cable and reboot your computer. If you continue to get this error, please contact TI-Cares™ Customer Support for assistance.

Flash Application Did Not Install

Follow the steps below to install the flash application.

1. If you selected CANCEL during the installation, skip to step 4.
2. If the TI-GRAPH LINK cable was disconnected either from the TI-83 Plus or the computer, reconnect the cable prior to restarting the installation.
3. Within about 20 seconds after interrupting the installer, an error will appear on your computer. The installer will exit after the error message is dismissed and the home screen displays.
4. Restart the download by double-clicking on the appropriate **.exe** file.

If you continue to have problems, contact TI-Cares.

Validation Error

Either this calculator does not have a certificate to run the application, or electrical interference caused a link to fail. Try to install the application again. If you continue to receive this error, contact TI-Cares.

Checksum Error

The Flash installer was not able to verify that the application was fully installed. Exit the installer and try to install the application again. If this problem persists, contact TI-Cares.

Other Errors

See pages B-6 through B-10 in the TI-83 Plus guidebook for information about the specific error or contact TI-Cares.

Miscellaneous

Verify Maintenance Upgrade Version and Serial Number

1. Press **2nd** [MEM].
2. Select **1:ABOUT**.

The version number has the format x.yy. The serial number appears on the line beneath the product ID number.

Check Amount of Flash Application Free Space

1. Press **2nd** [MEM].
2. Select **2:MEM MGMT/DEL...**

Essen1e requires at least 32,768 bytes of ARC FREE to load the application. There is approximately 160K total archive memory in the TI-83 Plus. For more information about memory and memory management, refer to the TI-83 Plus guidebook.

How to Contact Customer Support

Customers in the US, Canada, Mexico, Puerto Rico, and the Virgin Islands

For general questions, contact Texas Instruments Customer Support:

phone: **1-800-TI-CARES (1-800-842-2737)**
e-mail: **ti-cares@ti.com**

For technical questions, call the Programming Assistance Group of Customer Support:

phone: **1-972-917-8324**

Customers outside the US, Canada, Mexico, Puerto Rico, and the Virgin Islands

Contact TI by e-mail or visit the TI calculator home page on the World Wide Web.

e-mail: **ti-cares@ti.com**
Internet: **www.ti.com/calc**