There are four sections to these installation notes: Terms & Conditions, File Types, Grouping and finally specific Installation Notes for the programs that you have ordered.

Please take a short time to read all these sections, to ensure that you have trouble-free operation of the programs.

Terms & Conditions

- The programs are provided for free "as is".
- No warranties are given or implied.
- No liability can be accepted for any loss or damage resulting from the use of the programs.
- Information, artwork and text contained in these programs and their accompany teacher notes, except where provided by third parties or where it is expressly stated otherwise is copyright protected and is for your personal, non-commercial use only. You may not reproduce, retransmit, distribute, disseminate, sell, publish, broadcast, circulate the information to anyone, or use this information for any other purpose, without express prior written consent.
- Whilst every effort is made to ensure the accuracy of the information no responsibility is accepted for any use made of the information provided and no liability for any loss suffered thereby will be accepted.

File Types

.83p   Program file for the TI83. This can also be installed on a TI83+/83+SE/84+/84+SE.
.8xp   Program file for a TI83+/83+SE/84+/84+SE. This cannot be installed on a TI83.
.8xg   Program Group for a TI83+/83+SE/84+/84+SE. This will be installed into the archive memory.
.pdf   Portable Document Format requiring Adobe Acrobat Reader to view. The free reader can be downloaded via the link on the Calculator Software website.

You need TI-Connect software to install the .83p, .8xp and .8xg files onto your TI83, TI83+, TI83+SE, TI84+ or TI84+SE.

Visit here to download it:
https://education.ti.com/en/products/computer-software/ti-connect-ce-sw

Grouping

What is grouping?

The TI83+, TI84+ and Silver Edition calculators have the facility to store programs together in GROUPS in ARCHIVE memory which keeps them safe and avoids them being accidentally deleted by students. The programs need to be copied from ARCHIVE memory to RAM in order to run them.

What's the difference between RAM and ARCHIVE memory?

RAM (standing for Random Access Memory) memory is about 24 kilobytes in size and is where programs that you want to run need to be. Also stored in RAM are lists, matrices, functions, etc. ARCHIVE memory is separate from RAM and is where programs and applications are stored when they are not being used. If any data is in Archive memory, then typically it cannot be used, only stored there - it always has to be unarchived first to use it. GROUPS are always stored in archive memory.

How do I group programs into ARCHIVE memory?

First have all the programs and data files that you wish to group together in normal RAM. You must want to group more than one file, else you will incur an error.

Press 2nd, press +, press 8 (for option 8:Group…) and press 1: to Create a New Group. Type in the name of your group (max 8 letters) eg NUMBER, SHAPE, ALGEBRA, etc.

From the next menu, select option 2:All-…

You are then presented with a full list of the calculator's memory. Using the arrow keys and ENTER, go down the list marking all of the programs that you wish to have placed in the group. Pressing ENTER marks each file with a dot, whilst pressing ENTER again removes the dot.

When you have completed your selection, press the RIGHT ARROW key to highlight the word DONE and press ENTER.

After a short time, your GROUP will have been created in Archive memory - wait for the "Done" statement to appear.

How do I ungroup programs from ARCHIVE memory to RAM memory?

First it is worth clearing the RAM memory on the calculator, to make room for the programs that are about to be ungrouped from the Archive memory.

To clear the RAM, press 2nd, press +, press 7, press 1, press 2. After a short time, the message "RAM cleared" will then appear on the screen.

To ungroup press 2nd, press +, press 8, press RIGHT ARROW to highlight the word UNGROUP and then use the UP and DOWN arrow keys to select the group that you wish to ungroup.

Note that when a collection of files are ungrouped, they are NOT removed from Archive memory. A COPY of the files are made and put in RAM - the original grouped files in Archive memory remain untouched.

Installation Notes

You have purchased multiple programs that will be best stored on your TI83+/84+/SE calculator if they are grouped according to your preferred categories.

It is important that when ungrouped, the total file size of all programs within a group leave at least 6000k of RAM available for the programs to use as their "workspace".

You are recommended to do any grouping on an actual calculator - doing it on a computer and then transferring the files to the calculator sometimes corrupts the data. This is due to an intermittent bug in the TI operating system/link software that is triggered by names of programs that are 8 letters long being contained within a GROUP. This bug does not cause any other problems with the calculator's or software's operation.

As you will read below, some GROUPS of programs are not affected by this bug, and they are contained in a separate folder called GROUPS.

If you installing the software onto a TI83 calculator (not a TI83+ or TI84+ model), then there is no facility to GROUP programs. In addition there are special versions of TimeUp, GridRush and McMarker that run on the TI83 and these are contained in separate subfolders called "TI83 Version".

Number Collection

The Ultimate Non-Calculator Challenge, Number Grids and Number Line are already in their own groups called (respectively) NONCALC, NUMGRIDS and NUMLINE none of which are affected by the above described bug. The groups NONCALC, NUMGRIDS and NUMLINE can all be installed straight to Archive memory.

For the other Number programs, I suggest you clear the RAM and install the programs GRIDRUSH, ROUNDING, TIMEUP and TIMEUP2 into RAM. Create a new group called NUMBER (or anything else you wish to call it). Into this group put these 4 programs.

Now clear the RAM again and install the programs MCMARKER and DATAMAKE into RAM. Create a new group called OTHER (or anything else you wish to call it). Into this group put these 2 programs.

Algebra Collection

All of the algebra programs are already in groups called ALGEBRA, BRACKETS and TFG none of which are affected by the above described bug. The groups ALGEBRA, BRACKETS and TFG can be installed straight to Archive memory.

Alternatively, you can create the group yourself by doing the following steps:

Clear the RAM and install the programs EQUATION, EQV1, EQV2, EQV3, EQV4, INDICES and INDICES2 into RAM. Create a new group called ALGEBRA (or anything else you wish to call it). Into this group put these 7 programs.

Shape Collection

Clear the RAM and install the programs ANGLES, PINBOARD, POLYGONS and VIEW3D into RAM. Create a new group called SHAPE (or anything else you wish to call it). Into this group put these 4 programs.

The DIAGRAMS program is contained in two separate groups - DIAGRAM1 and DIAGRAM2. These groups are not affected by the above described bug. These two groups can be installed straight to Archive memory.

Graphical Collection

Clear the RAM and install the programs INTEGRAL, JUGS and TRAFFIC into RAM. Create a new group called GRAPH (or anything else you wish to call it). Into this group put these 3 programs.

Logic Collection

All of the logic programs are already in a group called LOGIC and this group is not affected by the above described bug. The group LOGIC can be installed straight to Archive memory.

Alternatively, you can create the group yourself by doing the following steps:

CARWARS is already in a group and is not affected by the above described bug. I suggest you install this group on your TI83+ first, clear RAM and then ungroup it. Two files are in this group: CARWARS and CARWL (this second file is a list).

Then install the program FLIPPER into RAM. With all these logic programs in RAM, now create a new group called LOGIC (or anything else you wish to call it). Into this group put FLIPPER, CARWARS and CARWL. You can now delete the group called CARWARS as it is now redundant.

Hence the groups ALGEBRA, BRACKETS, DIAGRAM1, DIAGRAM2, GRAPH, LOGIC, NONCALC, NUMGRIDS, NUMLINE, OTHER, SHAPE and TFG now contain all your programs ready for easy use and distribution to other calculators.

If you encounter any Memory errors when using the programs, try clearing RAM, ungrouping your chosen group again, and then running the program you were using straight away. Sometimes if you were previously running another program from within the same group, and exited that program by pressing the ON key - rather than choosing QUIT from within the program - the memory will not have been "cleaned up" ready for another program to use it.

Alternatively, you could place fewer programs in each group and thus have more groups in your archive memory.

Nevil Hopley
Calculator Software
~ engaging learning ~
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