Users Hand-guide for the CP-Clock F83

(CP-Clock64_1.2/CP-Clock128_1.2)

You are now the owner of the **Cassette-Port-Clock F83**. This clock is a battery driven device, which means that it continues to function, even when your computer has been switched off! The clock contains many different functions, which include the time, date and the day of the week. Leapyears are also catered for. The correct year will always be automatically loaded by your computer, as the information is stored in the clock-memory. This means that at the change of each year the necessary alterations will automatically be carried out by the programme. The accompanying programme facilitates a change of year even up to four years later. Your Computer may theoretically remain closed down for up to four years, after switching on again the correct time and date will be read in. A further advantage is the additional room in the clock for other planned alterations and enhancements (which at present are still at the drawingboard stage).

Before you actually connect your Cassette-Port-Clock to your computer, please read through this manual to achieve a thorough understanding of the clock-functions and its usage. You should have received the Cassette-Port-Clock Module, a service programme diskette as well as this Users Manual consisting of four pages!

Important !!!
The programmes for the clock on the accompanying disc will only work in conjunction with GEOS, from the version 1.3 upwards !!

The Service Disc

The service disc contains two programmes which enable the CP-Clock F83 to function in conjuction with the Geos DeskTop. One of the programmes is for the Commodore C 64, and the other is for the Commodore C128, in the 40 and the 80 character mode. Please copy only the one programme which is compatible with your requirements onto your GEOS System disc. The programme should be positioned somewhere behind the programme *Configure*. Further information to copying data in a GEOS environment can be found in the GEOS handbook. After copying the necessary programme on to your GEOS System disc, please put your service disc in a save place, for the time being you will no longer require it.
You are only allowed to use these programmes in conjunction with your own System disc !!!

Important !!!
Should you at sometime wish to remove these programmes from your System disc, then you must first move them to the edge of your DeskTop before then moving them into the bin. Should you not carry out this sequence, you will only be met with a GEOS dialogue box in which is stated that; the removal of this information may not be carried out on a GEOS System disc. Should you at some time wish to replace the programme with one of the same name on your GEOS System disc, then you must bin the one to be replaced, as already started above, before moving your new programme on to your GEOS System disc. This information could be of help to you in the future, when replacing your present programme with an update.

Connecting up your Cassete-Port-Clock F83

The CP-Clock F83, as the name suggests, is run from the cassette port of your Commodore computer. When connecting the clock module to your computer, please do so only after your computer has been switched off !! Ensure that your computer is switched off and then insert your CP-Clock F83 into the cassete-port of your Commodore computer, (see your Commodore Handbook for further information to your computer). The module is to be inserted into the cassete-port so that label is facing up, and the screws on the base of the module are facing down. Once you are sure that the module is connected properly, you may switch on your computer once again. Your CP-Clock F83 is now ready to be correctly adjusted before being put to use.

The CP-Clock Programme

You can now start the programme by double clicking it's icon from the GEOS DeskTop. After loading a list of options will appear, with the following menu-options; *Programme*, *Data swap* and *data-entry CP-Clock*. In the top right hand corner of the programme two clock faces can be seen, both working, although at present with different times, as well as the date, showing. The top clock shows the present time shown on the GEOS clock, which is part of the DeskTop, the clock underneath is the CP-Clock F83. As well as these two clocks, the date and the day of the week can also been seen. Should you, at a later stage, not have connected your CP-Clock you will see a reminder in place of the date and the day, informing you that it is *"not connected"*. As the GEOS-Clock does not support the days of the week, the actual information will not appear on your GEOS screen, in spite of being entered in to the programme. The time alters every second, first the top clock and then the bottom clock. This does not mean, however, that the top clock is running fast, but is a necessary part of the programme which for technical reasons cannot be altered. A one or two second difference between the two clocks is also a necessary part of the technical make-up of the clock programme.

The menu headings under the option; ***Datei***

-Info (CBM I)
After selecting this option a dialog-box will appear giving you information explaining the use of this programme. You can exit the dialog-box by pressing Return or with a single click of your mouse-button, regardless of where your mouse pointer is on the screen.

-Exit (CBM Q)
This option allows you to exit the programme.

The menu-headings under; ***Data-swap***

-From CP-Clock to GEOS (CBM G)
By selecting this command, you carry out the same action as the GEOS Boot disc does when booting the programme for the first time. The CP-Clock is read, and the reading is automatically transfered to the GEOS-Clock. If you do not have your CP-Clock-Modul attached to your computer, a dialog-box will appear informing you of a fault and you will automatically be returned to the GEOS DeskTop, if the data-transfere funktions without any problems you will remain in the programme. By checking the top clock, you should now be able to see that the information transfere has taken place. the above mentioned command will be of particular use after a programme-crash, as the GEOS-Clock remains at the time reached just before the programme crashes. A GEOS restart does not reset the clock to the new time.....

The menu-headings under; ***Data-swap***

-From GEOS to CP-Clock (CBM C)

With this function the same happens as above, with one exception; the information will be transfered in reverse; i.e. from the GEOS-Clock to the CP-Clock. As well as this you will also be required to enter in the day of the week at the bottom of the screen, which is done as required by entering the appropriate number (0-6) for the chosen day. Should you enter in the wrong information the appropriate dialog-box will appear telling you so. By clicking on the cancel-icon you will leave this part of the programme.

The menu-options under the heading; ***Data-entry CP-Clock***

-Time (CBM T)

By using this option only the time in the CP-Clock can be altered. First the dialogue-box will appear and you be will asked to enter in the new time. Please enter in the hour, minutes and seconds using double figures seperated from each other by full stops, then press RETURN. The time will automatically be transfered and activated. Should you make a mistake, the appropriate dialog-box will appear informing you. If you have mistakenly called up this part of the programme, and wish to leave it, you can do so by clicking on the exit icon.

-Date (CBM D)

This routine allows the date in the CP-Clock to be altered. A dialogue-box will appear in which the present date, month and year can be entered in using double figures, and the weekday using only a single figure. Each entry is to be seperated by use of a full stop. To enter the required information on the day of the week; figures fron 0 - 6 are to be used (see the information at the bottom of the dialogue-box. The entry concerning the day of the week cannot presently be used by the Geos programme, however, it may be of future use in conjunction with new DeskTop accessories! Wrong entries and the cancel icon are treated the same as under the option; Time.

-Reset (CBM R)

This command allows you to rectify the CP-Clock's status register. The time and date remain the same. This could be of use to you should the clock at some stage cease to function correctly. A dialog-box will appear, in which you can either hit return or click on its icon. By clicking on the cancel icon you return to the master-menu without making any changes.

Key combinations

All of the already mentioned funktions can be directly carried out by using a combination of the CBM (Commodore) key in conjunction with the above mentioned appropiate funktion-keys. Both keys must be pressed down together.

-CBM S

This is a funktion-key which is not explained in the programme menu. When pressed the same thing happens as with the information transfere *"From CP-Clock to GEOS"*, with the one difference: you will return directly to the DeskTop.

An explanation of the various key-settings can only be obtained when the menus are not in the roll-down position.

Time Accuracy

As with all clocks, this one is not 100% accurate. There are various interference factors which, affect the movement of the quarz parts. For example: one of the main factors causing interference, is the change of the surrounding temperature. However, you may remain assured that this factor will not have much influence on the accuracy requirements for the general user. Even the degree of accuracy of the clocks in our modern PC's is not 100%. However should at some stage your Clock start to become very inaccurate, it is possible to adjust the time-keeping by trimming the quarz-movement, through adjusting the trim-condenser. To do this you must remove the clock-module from the computer (the computer must first be switched off!). All of the screws must be removed from the lid to the module housing, whilst removing the lid care is to be taken that the small printed circuits are not touched, you will now be able to see the movement condenser, which is situated directly next tothe IC. If your turn the two half-moon shaped plates towards each other the clock movements will become slower, if you move the plates away from each other the movement becomes faster. You may make the adjustments to the trimmer with a small screwdriver, be careful not to touch the other parts of the clock. After making the necessary adjustments put the clock back together again, reconnect the module and compare the time of the clock-programme, it is possible that the time and/or date have been wiped out, should this be the case, enter in the necessary information as normal. About a week later recheck the accuracy of the time and if necessary make the alterations as already explained.

Please Note: Should you inadvertently enter in a load command outside of GEOS in which the command is aimed at the Cassette-Port, and you have not removed your CP-Clock, the screen will change its colour and there will appear to have been programme crash. To stop this just press the RUN/STOP key.