**BBU User Manual**

**Power / battery Backup Interface**

**for**

**Commodore 1700, 1764, 1750**

**as well as**

**GeoRAM 512**

**RAM Expansion Units**

**P E R F O R M A N C E P E R I P H E R A L S**

**cPPI, user manual version 1.0 BBU**

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**Summary / System Requirements**

Thank you for your purchasing decision to purchase the BBU.  We know that this product will provide you with lots SPAB.  The offers a Battery Buffer Commodore Ram Expansion Unit (REU) and 512 of GeoRAM GeoWorks.

Both the 17xx series of Commodore and GeoRAM 512 can be used.  Special REU-type is the case of information for a mentioned respective product name.

**System Requirements:**

Commodore 64/128

REU

1541 Floppy Drive (Or Compatible)

monitor

additional drives (optional)

Questions or comments in any Ways about the product, please contact: PERFORMANCE PERIPHERALS, Europe Michael Renz Holzweg 53332 Bornheim / Germany

**Package Contents**

This should be in your BBU package:

your BBU

power supply

Battery holder for four D-cell (mono)

Utilities Disk BBU

Take this Opportunity and fill the registry and send it to help you reach the GenuB the Produktunterstutzung!

**Installing the BBU with the REU**

Turn off your Commodore 64/128.

Unpack the BBU.

The Label / LED 's (label) facing up, insert the BBU in Expansion port.

**Caution Do not turn a plugging / unplugging the BBU when the Computer.  The result goods astray parabele damage your hardware**

Insert your REU with the Lettering pointing forwards carefully (for keyboard out) in the REU port of BBU.

**Caution Refrain from plugging / unplugging the REU from the expansion port of the BBU if the computer turned on or the battery pack with batteries or the power supply of the BBU is connected.  That Result were mistaken parabele damage your hardware**

Connect the power supply first in the Socket.  Only then plug the labeled plug into the 9V power input of the BBU.

Optional can the battery holder with four Alkaline batteries D cells and V in the 6 battery input the subsequent BBU.

Turn on your Commodore 64/128.

If not, as usual, the should appear inset.  turn off the computer immediately and contact your PP Stutz point handler in conjunction.

**Find out more about the battery back-up**

The BBU operates even without a battery pack. Without this, the BBU loses on when the AC adapter is not connected or the connection this is interrupted.  eigestecktem batteries Unloading of at PSU / Power Supply however, does not take place, however, you should replace the data security because of the batteries, when the Indicator LED lights up the BBU.  This can also be inferior battery already happen.  If such a change is carried out, please ensure confuse voltage is supplied from the power supply.  One of its connection for power supply and Battereispannung (9 v 6 and v) at the BBU is not bad, but the voltage indicator only works with the Port 6 V BATTERY together you ken the power supply of the BBU always in an electrical outlet, the permanent voltage Grouting alternate case is not connected to the battery for which after use.  The Battery life depends Gro the buffer to the memory under at least than one week Please use alkaline batteries battery 's are not charged.  This separately happen. A transporting to another location so nothing stands in the way A in stationary Operation you can under formation of the battery pack calmly see.

**Test the BBU / REU component**

Archiving the data in RAM before you undergo a test. After creation (insertion of in the TEST BBU program that Utilites on the disc is.  If data on the BBU / REU are, save them to disk before the test program start.  TESTBBL destroys any data in the BBU / REU

**For the Commodore 64**

LOAD "TESTBBU",8,1

RUN

**For the Commodore 128**

Loading and Start TESTEBU as described above in 64 mode.  A test in 128 mode is not experience dictate.

Follow the instructions of the software: The program is TESTBBL automatically the RAM 's your REU test.  should Expires during the test, the ACTIVITY LED flash.  It indicates the test daf reached your REU.

**Note:** An error message appears, if the test before Expires the same of the Test Pattern.  Drove so please drain again by since BE checked whether the will, test pattern after the power has been off the computer buffered remains.  If the program TESTBBU reports a real error please contact me Your PP, Inc.- Stutz point handler in connection

**Use of Software with the component**

Any software that cooperates with a REU, continue to use the BBU / REU component.  Main advantage of using the BBU provides its buffering the data even after turning off the computer. However, this Advantage only comes to fruition if the software allows a persistence of the data in the REU. Why software that the REU reinitialized or deletes necessarily at the start is to recommend.

**Use and Reboot of GEOS with the BBU / REU**

GEOS treated the BBU / REU component as described above.  The normal start of GEOS use a thoroughly tolerable Reboot program formats the REU and thus erases the memory contents.  Start GEOS at normal way only if your BBU / REU is not formatted.  Copy the Desktop to the REU for a quick reboot

**Rebooting GEOS 1.x to 2.5 with the BBU 17xx REU:**

To reboot to GEOS, start program, which on your GEOS System / security system diskette.

LOAD "RBOOT,8,1 : RUN

**Rebooting GEOS 2.0R with the GeoRAM 512**

Start the BBG RBOOT program on the BBU Utilities Disk

LOAD BBG RBOOT,8,1 : RUN

**Rebooting GEOS 128 2.0 with the BBU / 17xx REU**

Start the Program BBR RBOOT on the BBU Utilities disk

Run “128 BBR RBOOT”

**Rebooting GEos 128 2.0R with BBU/GEORAM 512**

Start the Program BBG RBOOT on the BBU utilities

RUN “128 BBG RBOOT

**MAKE AUTO REBOOT for GEOS 128 2.0**

C 128 with a GEOS 128 2.0 Turn never System (Start) diskette in LFW. 8 a when data in the after a car boot by GEOS 128 2.0 RAM foramtieren Do not start the program zerstorerischern

MAKE AUTO REBOOT a create car boot sector on any working floppy Thus they can their GEOS System / security system disks in the disk box left!  so use them instantly Work Disk with new erstelltem car boot sector, which may be located in LFW. 8 now to GEOS 128 start by turning on the computer.

Note: BBU / 17xx component needed the 128 BBR which are copied to the car boot RBOOT program work diskette MUB.  A BBU / GeoRAM 512 128 needed BBG RBOOT on the car boot diskette work

**Note for the GEOS configuration**

If the LFW. Configuration has been changed before exiting GEOS (LFW change. C and B, etc.), the RAM 1571 no longer found when rebooting (start) of GEOS.  The result is a normal start of the RAM again, and the data were lost.  So the Configuration Set in so forth like this also CONFIGURE logged again.  Unfortunately, this is by Error preferably infinite loops) are not always carried out particularly annoying when o g. LFW change has been forecast given by a trick: Set the hardwarema Big in relation to the last alternately LFW. or use a DAB offers softwaremoBige solution (see Utility Disk the respective LFW. e.g.  Change Address "o. A.) If you in CONFIGURE of GEOS a delete LFW. want, you wechslen it previously in DESKTOP Only now open CONFIGURE again on Drive C. and can reconfigure the system Loschen / Out You LFW. B never when LFW. C is still active Elections Never the RAM reboot option in CONFIGURE from.  a GEOS would result Start CONFIGURE never from the REU always from a real drive / disk

**Use the BBU / 17xx component with Commodores RAMDos.**

Commodores RAMDos allows the use of 17xx REU as a LFW. (Non-GEOS).  To use RAMDOS the BBU / 17xx system, answer the question in nstallationsprogramm of RAMDOS whether nitialisierung be held with NO.

A Initialization always mean delete the data in the 17xx REU.

**Removing the BBU / REU from Computer**

To the BBU / REU component to remove make sure a back-up of Data has been completed to disk before.  Turn off the computer, and then drag Carefully the BBU / REU component from the port.  Prevent pulling out of REU with connected 6V Battery plug and POWER plug, as this is still the BBU with current supply.  Damage ware the zwangslaufige results.

**Removing the REU from BBU**

To REU remove from the BBU first turn off the computer, then remove the plug (Voltage Battery and 9V Power) of the BBU.  Only now please remove the BBU.

**Warnings**

Connect or Insert the BBU while the system.

The BBU / REU component can be plugged or unplugged when the computer is off. The gr POWER and BATTERY 6V voltage can during the entry and unplugging the BBU / REU component remain connected to expansion port.  One of the two voltages MUB for data buffering always be connected!  Create of your data in the BBU / REU always a backup on a floppy disk Backing up the information is the responsibility of the computer user.  A guarantee or the fulfillment of any claims for loss of data wind refused.  They are for your data responsible.

**Warranty claims**

The statutory periods of half a year fun event.

Claims.  false In unsachgemalen handling of this product in any form (e.g. Voltage, or only insufficient ventilation may the power supply, test the repair, deviating Operation of the manual, damage to jerk broadcasts) is no Anspruck.  erner is no Liability fun event data loss maintained in any form.  A Leihgerat at not eingeraumt event. Repairs can be.