

HP 82166 A 16 BIT INPUT / OUTPUT BOARD

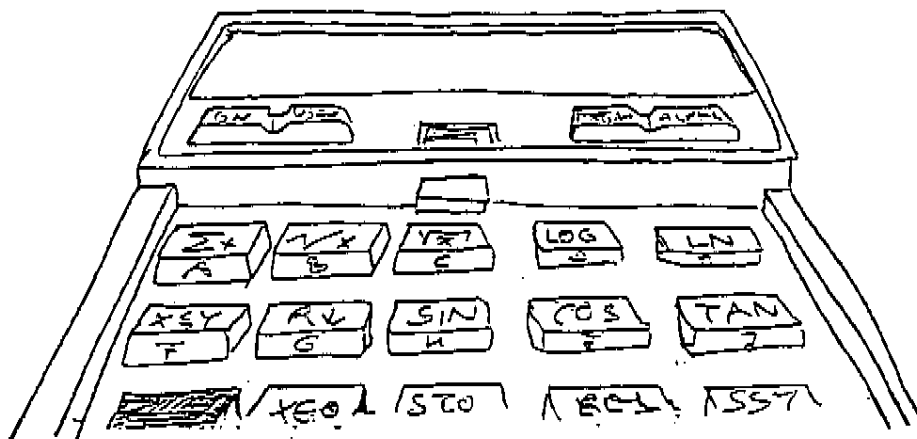
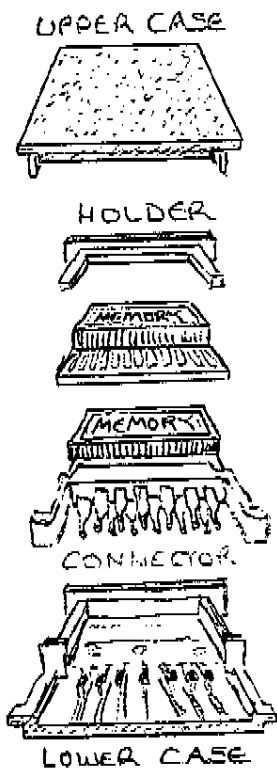
CHAPTER XII

DOUBLE X-MEMORY MODULE

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Double X-Memory Module



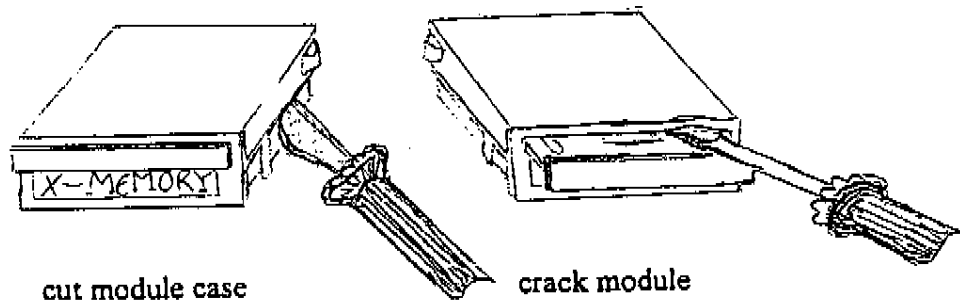
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Introduction :

Double X-Memory Modules optimizing plug in port consumption of HP-41 : With a Double X-Memory Module beside a straight 16 kByte Zeprom-Module you reach full X-Memory space (600 Register) and maximal overall performance for your handheld. Informations about HP-41 port addressing you find inside HP-41 Service Manual ! Because Double X-Memory Modules are ram modules, we can adress them by intern wiring : Adressing is done only by B3 pin of module (left-right position). Realize your own Double X-Memory Module by mechanical fusion of two standart X-Memory Modules inside one case. Carry out following steps :

Open Module Case :

First open X-Memory Modul case by cutting connection between upper and lower case with sharp scalpel. Than insert a small skrew driver between the module holder and upper case and crack the module.

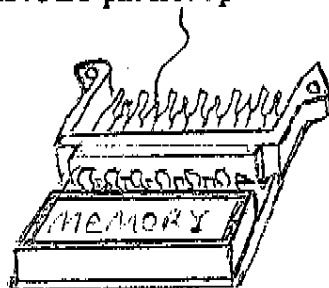


cut module case

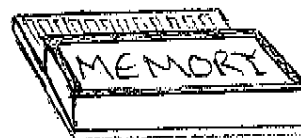
crack module

When both module are open take them to pices. Now remove the complete connector block of one X-memory Module from printed board with hot air soldering tool (upper module). Alternatively cut connector pins with nippers and remove them with soldering-iron one after another. Generally do not overheat sheded memory chips !

remove B3 pin from printed board



lower module

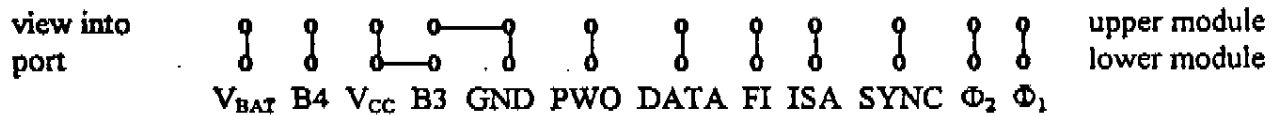


upper module

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Connect Intern Wiring :

Now remove B3 connector pin from lower module and bridge B3 printed conductor to VCC line. Than solder short thin noninsulated wires to connector pins of lower module. Stack upper module over lower module and connect wires between both modules pin to pin. The B3 printed conductor of upper module connect to GND.



Test Module :

Now insert Double Module with lower case shell inside HP-41 and test available memory space with CAT 4 command. With empty X-Memory you get 600 into X-register, the number of free X-Memory registers.

Modify upper case and modul holder using a small file to reach enough place for the upper module. At last close modul case and glue it, now complete work is finished.

