

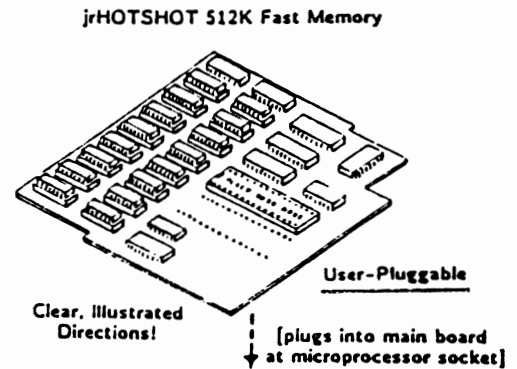
The jrHOTSHOT Multi-function Upgrade Plug-ins for your PCjr

Easy to Install ...new from ES Quality Products

512K or 256K jrHOTSHOT Fast Memory Plug-ins

Adds fast, contiguous memory at addresses 129K and above. Fast Memory increases the PCjr performance to the level of a PC/XT as proven by the speed measurement program sent along on a diskette. If you have a 128K PCjr, the 512K plug-in gives you contiguous memory from 0-640K, or with the 256K upgrade you'll have contiguous memory from 0-384K. No additional power supply is needed.

Simple "device driver" software supplied with the upgrade should be copied once onto your DOS diskette so the Fast Memory is instantly recognized by DOS whenever you turn on your PCjr. The driver works elegantly and transparently. This software also gives your PCjr an 80-column screen immediately. It's easy, especially since everything is fully explained by illustrated directions.



512K jrHOTSHOT Fast Memory:

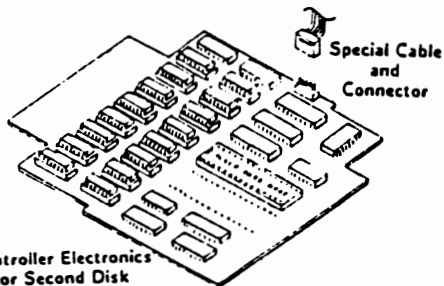
256K jrHOTSHOT Fast Memory:

P.S. A ramdisk program works great with the Fast Memory to give you a super-fast "ramdisk" (sometimes called a virtual disk) as drive C:, much like a hard disk would be drive C:.

jrHOTSHOT RAMdisk program: N/C

Diskette Controller Plug-in and Cable for second (external) floppy disk

jrHOTSHOT with Second Disk Ctrlr/Cable Option



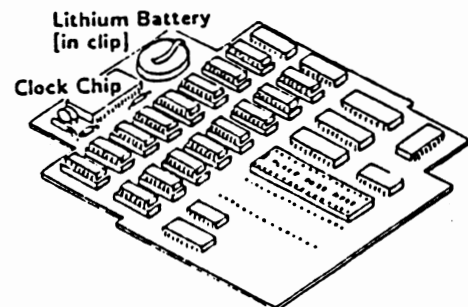
You can have this useful Controller plug-in alone or as an option to any jrHOTSHOT Fast Memory. Either way, this makes it easy to add a second floppy drive to your PCjr. No additional power supply is needed for this plug-in. We can suggest several economical sources, such as Paul Rau Consulting (209) 745-9284 that have the external floppy drive housed in a case with power supply for the drive.

As option to Fast Memory: just \$49 Alone: just \$79

Real-Time Clock/Calendar Plug-in with Lithium Battery Backup

As an option to any Fast Memory or by itself, this is a super clock/calendar with lithium battery. We used the best clock chip possible... it stays accurate even through leap years! Lithium battery has large Ampere-Hour rating for long, long life when the computer is off. Clip holds battery to allow replacement. With software provided, setting the time is simple, and your PCjr will automatically read the time and date whenever switched on. This is so convenient to have, and the time/date stamps on your files will always be accurate and reliable. You'll know which file is the latest version, etc. No additional power supply is needed for this clock/calendar.

jrHOTSHOT with Clock/Calendar Option



As option to Fast Memory: just \$39

Alone: just \$59

PAUL RAU CONSULTING
260 N. LINCOLN WAY
GALT, CALIF. 95632
Phone: (209) 745-9284

COMPATIBLES BY PAUL RAU CONSULTING

BASE SYSTEM DESCRIPTIONS

XT Type (8088 processor)

All systems come with an AT type case and 150 watt power supply. The case has an LED for power, turbo, and hard drive. It also has a keylock and reset button. All models run at 4.77 Mhz and at the turbo speed. Installed is 256k expandable to 640k and one 360k diskette drive and comes with a 101 key enhanced keyboard. The motherboard also has a socket for an 8087 math coprocessor chip.

10 Mhz,\$ 549
12 Mhz,\$ 599

AT Type (80286 processor)

All systems come with an AT type case and 200 watt power supply. The case has an LED for power, turbo, and hard drive. It also has a keylock and reset button. All models run at 6 Mhz and at the turbo speed. Installed is 512k expandable to 1 MB and one 1.2 meg diskette drive and comes with a 101 key enhanced keyboard. The motherboard also has a socket for a math coprocessor chip.

10 Mhz,\$ 949
12 Mhz,\$1049
16 Mhz,\$1349

386 Type (80386 processor)

386 systems are the same as the AT type except that they have the 80386 processor and the motherboard is expandable to 8 MB.

16 Mhz\$2149

OPTIONS

- Memory 640k (XT type only)\$ 150
- Memory 640k (AT type only)\$ 100
- Memory 1 MB DYNAMIC RAM, ZERO WAIT STATE (AT type only)\$ 350
- Memory 1 MB STATIC RAM, ZERO WAIT STATE (AT type only)\$ 550
- 20 meg hard drive\$ 319
- 30 meg hard drive\$ 369
- 40 meg hard drive\$ 449
- Monochrome (amber) monitor and card\$ 169
- CGA (color) monitor and card\$ 399
- EGA (enhanced color) monitor and card\$ 599
- 360k 5.25" diskette drive\$ 99
- 1.2 MB 5.25" diskette drive\$ 129
- 720k 3.5" diskette drive\$ 149
- Multifunction card (clock,serial, parallel, and game port) ..\$ 129
- MS-DOS 3.3 & GWBasic\$ 99
- CGA Monitor card\$ 99

Call for info on other options like modems, mice, tape backups, printers, memory chips, math coprocessor chips, motherboards, laptop computers, local area network, and others.

DUE TO FLUCTUATING MEMORY CHIP PRICES AND OTHER UNCERTAINTIES IN THE COMPUTER MARKET, PRICES ARE SUBJECT TO CHANGE. PLEASE CALL FOR CURRENT PRICES.

HARD DRIVES

<u>20 MEG HARD DRIVE SYSTEM</u>	\$579	\$ 9
20 meg hard drive system by Paul Rau Consulting. The hard drive is housed in a metal external case that measures 19" wide x 15" deep x 3.5" high. The entire unit is surge protected and has a fan and a 65 watt power supply, more than enough to drive two hard drives. There are two slots in the front, one for the first 20 meg a second slot with a removable tray for a second 20 meg if you should need it. On the front is one main power switch and four auxiliary switches that run four outlets in back. The drive is guaranteed for one year by Seagate and the rest of the components are guaranteed for 90 days. The hard drive interfaces at the internal modem slot. The hard drive package comes with hard drive utilities including a menu system and a backup program. (Option: A smaller hard drive case (5.5" high x 7" wide x 15" long) is also available.)		
(Option: Hardbios jr cartridge to allow boot from hard drive.. \$79)		
<u>40 MEG HARD DRIVE SYSTEM</u>	\$839	\$ 9
As above with two 20 meg hard drives.		

<u>20 MEG HARD DRIVE SYSTEM WITH 5.25" FLOPPY DRIVE</u>	\$779	\$ 9
Same as 20 meg hard drive system with 5.25" floppy drive in second slot. Jr Hotshot controller included.		
<u>20 MEG HARD DRIVE SYSTEM WITH 3.50" FLOPPY DRIVE</u>	\$829	\$ 9
Same as 20 meg hard drive system with 3.50" floppy drive in second slot. Jr Hotshot controller included.		

Separate Hard Drive Components

SCSI Host adapter (internal modem card), cable, software..	\$115	\$ 3
SASI Controller card with ST-506 interface	\$125	\$ 3
External hard drive cabinet with power supply	\$165	\$ 9
Seagate ST-225 20 meg bare hard drive	\$249	\$ 3

MODEMS

EX-1200	1200 baud external modem.....	\$ 99	\$ 6
EX-2400	2400 baud external modem.....	\$209	\$ 6

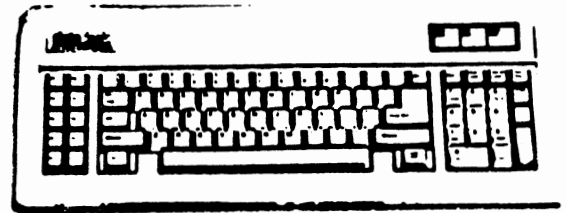
All modems are 100% Hayes compatible and will run Procomm, Qmodem, PC-Talk, etc. They all have auto-dial, and auto-answer and will run a bulletin board. The EX-1200 and 2400 also have a speaker. The EX-1200 and 2400 come with free Compuserve access time and have a 2 year warranty. Both external modems need a JR-232 adapter cable to run on a PCjr. Cable listed below.

CABLES

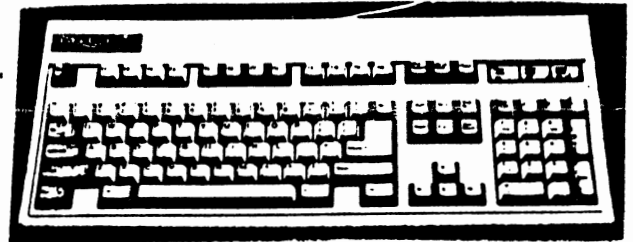
PC-JRMON	USE YOUR PC WITH THE PCJR MONITOR	\$ 39	\$ 4
JR-PCMON	USE A PC STYLE MONITOR WITH A PCJR	\$ 19	\$ 4
PC-CEN	STANDARD 6 FT CENTRONICS PRINTER CABLE	\$ 15	\$ 4
PC-232	STANDARD 9 FT SERIAL MODEM CABLE	\$ 15	\$ 4
JR-232	JR SERIAL ADAPTER - PCJR TO RS232 (8 FT).....	\$ 19	\$ 4
JR-KB	PCJR KEYBOARD CABLE - 6 FT	\$ 15	\$ 4

KEYBOARDS

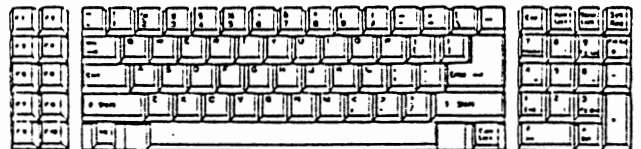
JR DATADESK PC 8700 KEYBOARD\$130 \$ 6
 AT style keyboard with extra large, ENTER and SHIFT keys, and Caps Lock Num Lock, and Scroll Lock indicator lights. Separate function keys located on the left, and numeric keypad on the right of the keyboard.
 Comes with PCjr adapter cable.



JR DATADESK TURBO 101 KEYBOARD\$159 \$ 6
 New enhanced AT style keyboard with extra large ENTER, SHIFT & CONTROL keys. Separate cursor control and numeric keypad. Twelve function keys across the top. Comes with PCjr adapter cable.
 (Option: Borland's Turbo Lightning software \$20 extra)



RACORE M9102 KEYBOARD\$129 \$ 6
 AT style keyboard with large-sized SHIFT and ENTER keys. Separate function keys on located on left, and numeric keypad on the right of the keyboard.
 Comes with PCjr adapter cable.



Miscellaneous

Racore M3200	Keyboard adapter cable	\$ 49	\$ 3
V-20	V-20 Chip (Speeds up JR)	\$ 18	\$ 3
KBB	Keyboard Buffer Cartridge for JR.....	\$ 29	\$ 3
CLK-ROM	Clock calendar chip for motherboard	\$ 39	\$ 3
CLK-CART	Same as above except a cartridge.....	\$ 59	\$ 3
NEX-JR	8MHz Nickel Express Jr turbo board	\$ 79	\$ 3
Q-5	Quicksilver fastboot cartridge 5 MHz.....	\$ 30	\$ 3
Q-8	Quicksilver fastboot cartridge 8 MHz.....	\$ 35	\$ 3
IBM WPT	Wall Plug Transformers.....	\$ 25	\$ 3

----- SEPTEMBER SPECIALS -----

20 MEG HARD DRIVE SYSTEM (IN SMALL CASE).....	\$559	\$9
RACORE M9102 KEYBOARD WITH ADAPTER CABLE FOR JR.....	\$119	\$6

Paul Rau Consulting
 P.O. BOX 682
 260 N. Lincoln Way
 Galt, CA 95632

VOICE (209) 745-9284 9 AM TO 4 PM PST
 DATA (209) 745-9284 5 PM TO 8 AM PST

----- SIAMESE SLOTS -----

The SIAMESE SLOTS cartridge adapter is a unique solution to the growing problem of only having two cartridge slots in your PCjr. The cartridge adapter plugs into either slot and allows TWO cartridges to be plugged into the adapter: TWO cartridges in one slot! By inserting one adapter in each slot, the PCjr is now capable of using FOUR cartridges simultaneously.

This is the perfect product if you wanted a QuickSilver cartridge but could not give up a slot. The QuickSilver cartridge is compatible with ALL other cartridges, so you know it will work and now you have the space!

The SIAMESE SLOTS cartridge is available now from Paul Rau Consulting for \$25.00 plus \$3.00 shipping and handling.

+++++++ LOGITECH MOUSE ++++++

We've added a mouse to our product line. The mouse we carry is the two button Logitech Serial Mouse. Logipaint Paint show software is included in the package. The Logitech Mouse and Logpaint Paint show sells for \$89.00 plus \$3.00 shipping and handling. Jr Serial adapter cable is required.

===== NICKEL EXPRESS JR up to 8 MHZ ! =====

The Nickel Express JR turbo boards are ready. The cost is \$79.00 plus \$3.00 shipping.

There are some compatibility issues to deal with regarding the Nickel Express JR. First, the IBM sidecars that we tested worked well on the fast speed which is 8 MHz. The JR Hotshot is now compatible. It works on the medium speed setting, which is 7.37 MHz.

The turbo board works fine with Racore DMA in the medium speed setting, which is 7.37 MHz. We have tested the Nickel Express JR with a few Tecmar boards with success about half of the time. The ones that did work had to be set on the slow jumper, which is 6.66 MHz.

The 128k PCjr works on the slow setting but is not much of an increase because software is needed to rearrange the video buffer which of course does not work with 128k.

We have tested a few Impulse, Micro Products sidecars. They do work on the medium speed setting but because of the software used with these boards the speed is somewhere under 7.37 MHz.

All software that we have tested works fine including a few word processors, data base, and spread sheet programs. I cannot test every piece of software available, but if there is a problem with a particular one, you can always toggle the turbo mode off to run it.

Included in the package is a program which allows you to load the software to drive the turbo board. It is of the TSR type, which means Terminate and Stay Resident. This means you type the name of the program (TURBOJR) and it loads and is resident for you to toggle back and forth by pressing left shift and alt. Press the same key combination again and it toggles the software again.

To install the Nickel Express JR, you will need to desolder the 8284 clock chip and solder a socket in its place. Only a skilled technician should perform this task. If you feel uncomfortable with this step, you can send your computer to Paul Rau Consulting and we will do the soldering, install it, test it, and return it to you for \$30.00.

***** NEW PRODUCTS FOR YOUR JR *****

----- HARD DRIVES -----

The hard drives by Paul Rau Consulting are now available in three different cases. The first type case is the original one that is so popular. It is the one with four switches in the front that run four outlets in the back. It measures 19" wide by 3.5" high by 15" deep. It is surge protected and has room for a second hard drive, should you decide to add one later. The 20 meg price is \$579 plus \$9 shipping and handling.

The second type case is a smaller one measuring 5.5" high by 7" wide by 15" deep. It is also capable of housing a second hard drive, should you decide to add one later. The 20 meg price is \$559 plus shipping and handling.

The third type case is of the kind that sits on top of the PCjr, very much like the Racore type. It is designed to look like part of the PCjr. It measures 14" wide by 3" high by 11.5" deep. It is \$599 plus s & h.

===== SELF BOOT CARTRIDGE NOW AVAILABLE FOR HARD DRIVES =====

A new cartridge has been developed to allow a PCjr hard drive to boot directly from the hard drive. This new cartridge is called Hardbios Jr and works with all hard drives systems sold by Paul Rau Consulting. It will also work with any Rim Electronics host adapter.

This concept was developed to allow the hard drive device driver to be loaded to allow a faster boot time. There are other advantages that can be realized. First, the hard drive operates slightly faster. Also, booting from the hard drive saves wear and tear on the diskette drives.

The cartridge is available now from Paul Rau Consulting for \$79.00 plus \$3.00 shipping and handling.

===== QUICKSILVER CARTRIDGE =====

The QuickSilver Cartridge is designed to make your PCjr power up quickly and silently and run more PC programs than it ever could before! The PCjr is notorious for the amount of time it takes to go through the memory check and the annoying beep that follows. The QuickSilver Cartridge replaces the PCjr's memory test with a new test that is fast and efficient. This new test is over 16 times faster: the equivalent of a 76MHz PCjr without this cartridge. The PCjr uses the beeper to indicate whether the boot was successful or not. The QuickSilver Cartridge only eliminates the annoying beep that warns you of no errors! Any beeps that signal a real error condition are faithfully reproduced. Whenever the QuickSilver Cartridge is installed, the PCjr's keyboard BIOS is modified to make it work like a PC (senior). This allows your PCjr to run some programs that previously only worked on a PC. This cartridge works in either slot, works with all other cartridges, does not use any program memory, and does not need any supporting software programs. You can purchase the QuickSilver Cartridge for only \$30.00. A QuickSilver cartridge with very fast components (for an 8MHz PCjr) is available for \$35.00.

Paul Rau Consulting
P.O. BOX 682
260 N. Lincoln Way
Galt, CA 95632

*** PRICES ***

MEMORY for PCjr

jr HOTSHOT		price	shipping
HS-512	512K MEMORY	\$249	\$3
HS-256	256K MEMORY	\$169	\$3
HS-512CLK	512K WITH CLOCK-CALENDAR	\$268	\$3
HS-256CLK	256K WITH CLOCK-CALENDAR	\$208	\$3
HS-512DIS	512K WITH DISK CONTROLLER & CABLE	\$278	\$3
HS-256DIS	256K WITH DISK CONTROLLER & CABLE	\$208	\$3
HS-512CLKDIS	512K / CLOCK-CAL / CONTROLLER & CABLE	\$309	\$3
HS-256CLKDIS	256K / CLOCK-CAL / CONTROLLER & CABLE	\$249	\$3
ES PPP	PARALLEL PRINTER ATTACHMENT	\$ 85	\$3

(The jr Hotshot memory board fits into the 8088 microprocessor socket and provides fast memory. Ramdisk software included at no additional cost. See back page for more detailed information)

THE PRICE ON MEMORY CHIPS IS SO UNSTABLE AT THIS TIME THAT OUR MEMORY BOARD PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE. IF THERE IS A PRICE CHANGE WHEN WE RECIEVE YOUR ORDER WE WILL CALL AND CONFIRM THE PRICE BEFORE SHIPPING.

SIDECAR MEMORY

M-230	SIDECAR MEMORY WITH 0K	\$145	\$6
M-231	SIDECAR MEMORY WITH 256K	\$210	\$6
M-232	SIDECAR MEMORY WITH 512K	\$299	\$6
M-250	SIDECAR MEMORY WITH 0K, CLOCK-CALENDAR	\$170	\$6
M-251	SIDECAR MEMORY WITH 256K, CLOCK-CALENDAR	\$225	\$6
M-252	SIDECAR MEMORY WITH 512K, CLOCK-CALENDAR	\$314	\$6
M-241	PARALLEL PRINTER PORT	\$ 85	\$6

(The sidecar memory attaches on the right side of the computer. It can be added in addition to the printer port. Ramdisk software included)

To order fill in form and mail to us or call between 9 AM and 4 PM PST.
(209) 745-9284 9 AM to 4 PM PST BBS (209) 745-9284 5 PM - 8 AM

SOLD TO: _____	Please Check One
ADDRESS: _____	___ Check enclosed
CITY : _____ STATE _____ ZIP _____	___ Money Order
PHONE : _____	___ Visa or Mastercard

QTY	DESCRIPTION	UNIT PRICE	EXTENDED
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MAIL TO:	SUBTOTAL	-----
PAUL RAU CONSULTING	6% TAX (CALIF RESIDENTS)	-----
P.O. BOX 682	4% CREDIT CARD FEE	-----
GALT, CA 95632-0682	SHIPPING & HANDLING	-----
	COD CHARGES	-----
Credit card customers (Visa & Mastercard only)	TOTAL	-----
Name as printed on card _____		
Credit Card # _____		
Expiration Date _____		

All prices listed are cash prices, please add 4% for credit card use.
For COD orders add an additional \$5.00. Prices subject to change.

DISK DRIVES

<u>RACORE DRIVE 2 PLUS WITH DMA PLUS 512K MEMORY</u>	\$500	\$12
5.25" 360k drive with direct memory access, clock-calendar, printer port, ram disk software and a PC/PCJR switch which increases compatibility with the PC software. Comes in a cabinet that is 2" high and sits directly on top of the PCjr. Includes 512k memory.		
<u>RACORE DRIVE 2 PLUS SYSTEM WITH DMA</u>	\$339	\$9
(Same as above but without 512k memory)		
<u>RACORE DRIVE 2 PLUS (WITHOUT DMA) PLUS 512K MEMORY</u> ...	\$457	\$12
5.25" 360k drive with clock-calendar, printer port, ram disk software and a PC/PCJR switch which increases compatibility with the PC software. Comes in a cabinet that is 2" high and sits directly on top of the PCjr. Includes 512k memory.		
<u>RACORE DRIVE 2 PLUS WITHOUT DMA</u>	\$292	\$9
(Same as above but without 512k memory)		
Racore M2101	256k memory for Racore Drive 2 Plus	\$139 \$ 3
Racore M2103	512k memory for Racore Drive 2 Plus	\$175 \$ 3
<u>JR HOTSHOT TYPE EXTERNAL 2ND DRIVE WITH 512K MEMORY</u> ..	\$478	\$ 9
5.25" 360k external drive in metal case measuring 3.5" wide x 6" high x 13" deep. It has its own power supply and uses the jrHotshot controller. JrHotshot 512k memory included. (Add \$20 for custom case that fits on top of PCjr)		
<u>JR HOTSHOT TYPE EXTERNAL 2ND DRIVE</u>	\$239	\$ 9
(Same as above but without 512k memory)		
<u>2ND DRIVE</u>	\$179	\$ 9
5.25" 360k external drive in metal case measuring 3.5" wide x 6" high x 13" deep. It has its own power supply. Does not come with controller.		
<u>REPLACEMENT DRIVE</u>	\$ 99	\$ 6
5.25" 360k direct drive.		
<u>3.50" EXTERNAL DRIVE</u>	\$239	\$ 9
3.50" 720K external drive in metal case measuring 3.5" wide x 6" high x 13" deep. It has its own power. No controller. Comes with a device driver to allow you to use DOS 2.1. This is very handy as it does not force you to upgrade to DOS 3.2.		
<u>JR HOTSHOT TYPE EXTERNAL 3.50" DRIVE</u>	\$299	\$ 9
3.50" 720k external drive in metal case measuring 3.5" wide x 6" high x 13" deep. It has its own power supply and uses the jrHotshot controller. Comes with a device driver to allow you to use DOS 2.1. This is very handy as it does not force you to upgrade to DOS 3.2. (Add \$20 for custom case that fits on top of PCjr)		
<u>REPLACEMENT DRIVE</u>	\$149	\$ 6
3.50" 720k replacement drive.		
<u>DISKS</u>	\$ 25	\$ 3
3.50" Dual sided 720k diskettes - 10 pack		