1989 ▪ 1990

ICD

PRODUCT
CATALOG

FOR THE
ATARI 8-BIT
AND ST
COMPUTER ▪
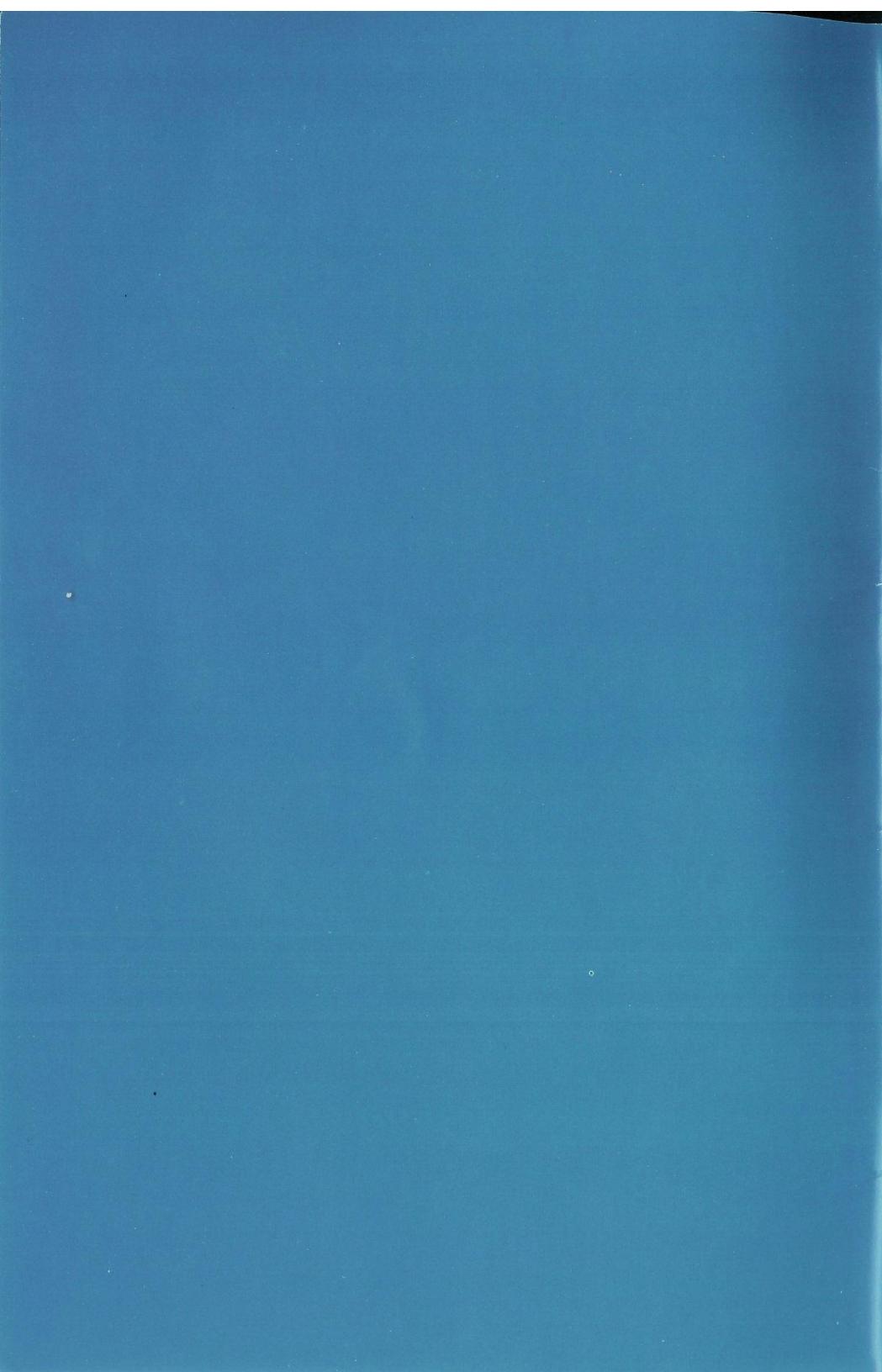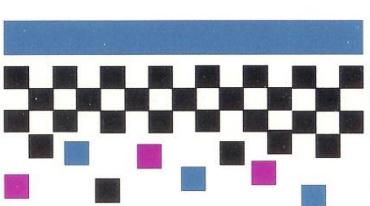
TAKING YOUR ATARI SERIOUSLY

Since its initial emergence into the world of Atari in January 1984, ICD has challenged the market with a host of aggressive software and hardware advancements giving more than a new meaning to the word "8-Bit", but also new life. ICD's founding partners, Tom Harker and Mike Gustafson, have shared a common commitment to the development of innovative products from day one. Products that have encouraged the 8-Bit's rediscovery and urged progressive applications to meet the needs of a changing market. This commitment has earned ICD a valued reputation through such contributions as **SpartaDOS**, the **US Doubler**, the **P:R: Connection**, not to mention the **Multi I/O** and many other fine products.

While ICD products were defining the 8-Bit's credibility and exposing the system's underlying power, **Optimized Systems Software** was steadily influencing the Atari market through the programmer's point of view.

It's no wonder why Optimized Systems Software, Inc. has been considered the leading supplier of systems software since its early beginnings in 1981. The founders of this Silicon Valley operation can be accredited with the development of such programs as **Atari BASIC**, **Atari DOS** and the original **Apple II DOS** among others. Each OSS language is innovative in design and teamed with superior performance while offering the versatility to attract both beginner and professional programmers alike.

Through the years, both ICD and OSS have enjoyed the rewards that follow innovative contributions and state-of-the-art accomplishments. Both have shown strength in countless applications, and have increased their product lines to encompass the new **ST generation** of computers which has come of age with
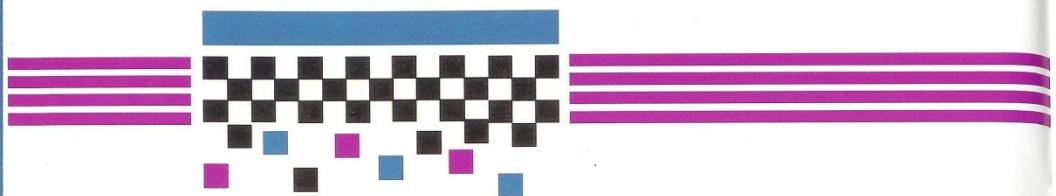
even more power for the user.

In January 1988, ICD and OSS merged product lines under the ICD banner, with the headquarters located in Rockford, Illinois. There, ICD will continue to publish OSS products and provide users with top-notch support in the same tradition that has made both ICD and OSS respected leaders in the Atari community.

ICD has certainly come a long way, thanks to customers like you, and an even more promising future is anticipated. Your comments and suggestions are especially helpful in determining how we can best satisfy your needs as they arise. So, keep your cards and letters coming, and watch for us in the Atari shows in the years ahead. Meanwhile, we'll keep providing you with products bound to make a lasting impact on your personal computer adventures.

Please take the time to browse through our catalog pages and absorb the wealth of information available here. Although this catalog is very recent and complete, we are continually expanding our product line to meet your growing needs. So, if you have any questions regarding upgrades and new product releases, do call us first for up to the minute information. ICD/OSS products are available from most Atari retailers as well as direct from ICD by calling (815) 968-2228 8AM to 5PM CST. You can also order products and receive 24 hour a day product information by calling the ICD BBS at (815) 968-2229, 300-9600 baud.

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P: R: Connection

Now you're no longer limited to "Atari Only" printers and MODEMS — the **P:R: Connection** is a flexible alternative to the Atari 850 interface. Suddenly hundreds of printers and MODEMS become compatible with your Atari; you can even share the same printer and MODEM with your ST or IBM PC.

The **P:R: Connection** plugs directly into the serial (disk drive) port of any 8-bit Atari and provides the user with a standard "centronics" printer port and two RS-232 serial ports. It also draws its energy from your computer which means one less cord fighting for an outlet, while its compact size leaves your work space virtually clutter-free. The **P:R: Connection's** serial ports resemble those of the 850 interface, possessing the same signals and functions and using a fully compatible built-in R: Handler. Why not make your connection the right connection — with our Connection!

Features

- Contains a built-in R: Handler.
- No external power supply is necessary.
- Two serial ports (DB-9) compatible with the 850 Interface.
- One parallel port (DB-15) 100% compatible with the 850 interface.
- Allows daisy chaining along the SIO (disk drive) port.
- Includes 850 Express, RSCOPE, and AMODEM software.

Requirements

- A MODEM Cable (**M/C**) is required for standard MODEMS, and a Printer Cable (**P/C**) is required for parallel printers.
- Runs on any Atari 8-bit computer. 1200XL requires modification.

PRC $89.95
P/C $14.95
M/C $14.95

Printer Connection

It may look just like an ordinary cable — but don't let its simplistic styling and low price fool you! This little dynamo's electronics are built right into the printer end of the cable and it possesses the power of compatibility — *printer* compatibility. With the **Printer Connection**, you're no longer limited to "Atari Only" printers.

So, for you "adventurous" Atari owners who dare to explore the world of printers — this one's for you!

Features

- No external power supply is required.
- No other cables are required.
- 10 foot cable goes the distance.
- 100% compatible with all programs (including **Print Shop**).
- Highest quality construction — no one else comes close.

Requirements

- Runs on any Atari 8-bit computer. 1200XL requires modification.

PCON **$59.95**
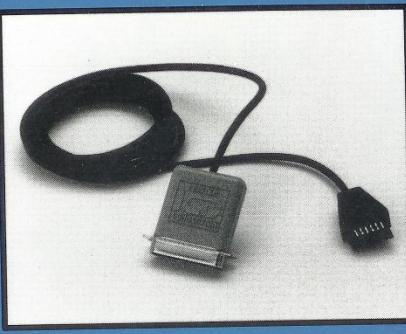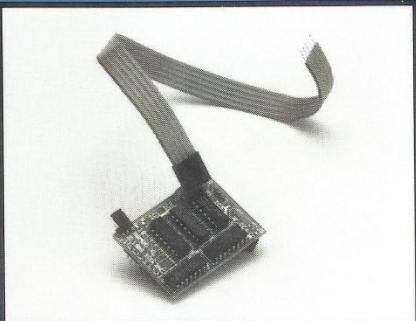
RAMBO XL

You'll be saying "thanks for the memory" after our **RAMBO XL** transforms your 800XL or 1200XL into a mighty 256K computer and makes it more compatible with the 130XE.

Now your XL can support **BASIC XE's** extended mode or the standard 64K RamDisk supplied with DOS 2.5. The **SpartaDOS** RD.COM handler supports this memory as a 192K RamDisk — that's enough memory to duplicate a full double density diskette in one pass!

Features

- Expands your 800XL or 1200XL into a 256K computer.
- Makes your 800XL or 1200XL memory compatible with the 130XE computer. Many languages, spreadsheets, wordprocessors, and database programs use this extended memory for added capacity or special functions.
- Use **BASIC XE** in extended mode *and* use a 128K RamDisk with **SpartaDOS** at the same time!

Requirements

- Installation is required. You will need a soldering iron.
- You will need 8 - 256K x 1 Dynamic RAM chips (**DRAM**).
- For installation in an Atari 800XL or 1200XL *only!*
- We recommend **SpartaDOS** to get the full power out of this enhancement.

RXL $39.95
DRAM . . . . $Call

Multi I/O

Five functions in one box give your Atari 130XE or 800XL the leading edge.

RamDisk: Choose from two memory capacities — 256K (**MIO-K**) and 1Meg (**MIO-mg**). The Multi I/O has its own AC power supply allowing the RAM to retain its memory while the computer is off.

Printer Interface: A "centronics" type parallel interface which uses a standard 850 or **P:R: Connection** cable (**P/C**). Accessed as P1: or P2: with or without auto line feed.

RS-232 Interface: This port accepts either a serial printer or any RS-232 MODEM. The R: Handler is built-in — saving 1800 bytes of memory. Uses our standard MODEM cable (**M/C**).

Spooler: Use any amount of RAM as a printer spooler.

Hard Disk Interface: Standard SCSI/SASI interface for connecting up to 8 hard drives such as our FA•ST drives, or build your own using our Hard Drive Kits with SCSI controllers.

Features

- Contains a powerful menu program built in the **Multi I/O** firmware.
- Printer spooler has Pause/Resume, Repeat Copies, and Clear.
- Allows booting from RamDisk or Hard Drive.
- Allows partitioning of Hard Drives (up to 16 Meg per partition), and RAM for RamDisks (up to 8 total drives).

Requirements

- Runs on an 800XL, 600XL (upgraded to 64K), or 130XE with an adapter board (**MIO-XE**) which also provides two cartridge slots.

MIO-K $239.95
MIO-MG $469.95
MIO-XE $19.95
MIOs are built on a limited basis. Please call for availability.
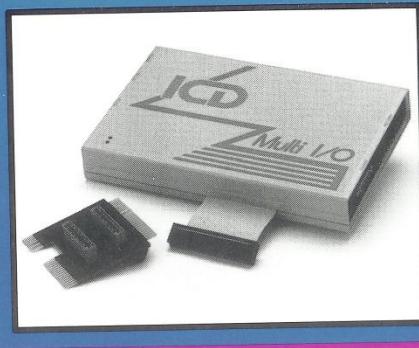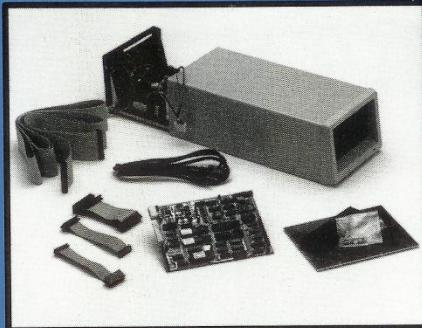
5 1/4" 8-Bit Hard Drive Kit

Do you already have your own IBM compatible hard drive? Well, this kit includes *everything* you need to turn that hard drive into a complete Atari 8-bit Hard Drive system!

These kits include our 5 1/4" metal case with 60 watt switching power supply, a SCSI controller with mounting/shield kit, 10' SCSI cable, a double drive cable set, and all the necessary hardware to connect your system to your **Multi I/O**. Both MFM and RLL versions are available.

Includes

- An MFM or RLL SCSI controller.
- A heavy duty case with 60 watt switching power supply. (Styled to match an IBM PC.) This case holds one full height 5 1/4 or two 1/2 height 5 1/4 hard drives. (The controller supports two.) Includes a quiet fan, and all power connectors.
- All the necessary mounting brackets, and shields for a clean, fully operational system.
- All the necessary cables to hook up everything! (Fully tested)
- Service is available on all drive systems made with our kits.

Requirements

- RLL certified drives are strongly recommended if you plan to use the RLL version of the kit!
- Just add an ST506/ST412 type hard drive (like used in an IBM PC). Everything else is included.
- Use of imbedded SCSI drives is not recommended with the **Multi I/O**.

5M8B *(Includes an MFM Controller)* $289.95
5R8B *(Includes an RLL Controller)* $339.95

SpartaDOS Construction Set

Perfection — that's how we describe our DOS, and we're sure you'll agree when you put **SpartaDOS** to work. It supports everything from the 810 disk drive to hard disk drives, RamDisks with the **RAMBO XL** modified 800XL or 1200XL, the 130XE, and even higher capacities.

SpartaDOS gives your Atari 8-bit the power of an MS-DOS style machine with its powerful built-in command processor, subdirectories, file time/date stamping, batch files, and more.

Features

- Supports subdirectories and time/date stamping of files.
- A special menu program allows rapid multi-file transfer, erasing, and more with an easy to use interface.
- Supports single, dual, and double density, 40 and 80 track 5 1/4" drives and 8" drives with the Percom or ATR8000.
- Intelligent switching between densities.
- Supports UltraSpeed disk I/O with the **US Doubler**.
- Powerful built-in command processor much like MS-DOS.
- Over 30 external commands packed with tons of features.
- Also allows reading and writing of Atari DOS 2 formatted disks.
- Supports up to 16Meg per drive and up to 8 drives (without needing configuring or taking up more memory).
- Uses less program memory space than any other DOS available.
- Supports the full 360K with the **Atari XF551** drive!

Requirements

- Runs on any Atari 8-bit computer with at least one disk drive. (Some advanced features are only supported on 64K computers.)

SDCS **$39.95**
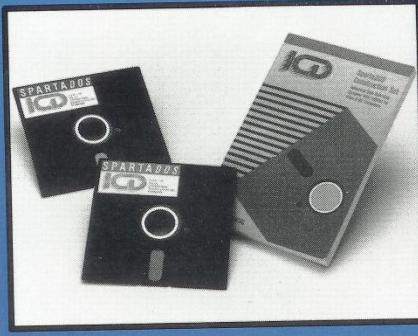
SpartaDOS X

Just what your 8-bit has been waiting for — a cartridge based DOS which increases the power of your computer and includes an abundance of features such as high speed I/O with the **US Doubler, Indus GT, Atari XF551**, and expands on the command processor of its disk based cousin.

Even though **SpartaDOS X** is a 64K cartridge, it requires no memory from your computer. You may piggy back another cartridge, on top of the **SpartaDOS X** cartridge and operate just as if you had booted from disk — except much, much faster. Here a just a few advanced features found in this cartridge DOS.

Features

- Supports high speed disk I/O with **US Doubler, Atari XF551,** and **Indus GT** disk drives.
- New improved menu program. Shows entire directory tree and performs multi-file operations.
- Supports up to 1 meg of internal memory as a RamDisk.
- The lowest MEMLO ever!
- Powerful file loader supports relocatable files and symbol linking.
- All new command processor includes parameter passing on batch files, user definable prompt, and file search paths.
- The most commonly used commands are built right into the cartridge!
- Command compatible with MS DOS (PC DOS).
- High speed ARChive utility built in.

Requirements

- Runs on an 800XL, 1200XL, 600XL (with expanded memory), 65XE, 130XE, and the XE Game System.

SDX **$79.95**

SpartaDOS ToolKit

Now SpartaDOS is reaching new potentials with some help from our **SpartaDOS ToolKit**! It's packed full of power and ready to boost **SpartaDOS** with utilities written especially for the serious user.

Each innovative tool commands a new form of energy and strength when teamed with our already powerful SpartaDOS. Just look at what these tools can do for you!

DISKRX: SpartaDOS disk editor — edit sectors, trace files or sector maps in any density, rebuild directories, and more. **DiskRX** also has powerful disk recovery commands to recover your important files from a crashed diskette. **DiskRX** alone is worth the price — it is the most powerful disk editor available for the Atari 8-bit computer.

WHEREIS: Find a filename (full or paritial) anywhere on your disk drives. This speedy command will show all matches and paths.

SORTDIR: Sort your directories by Name, Extension, Date, or Size — quickly, easily, and safely.

VDELETE: Prompted delete files command.

RENDIR: Rename a subdirectory without changing its contents.

MIOCFG: Save and re-Load **Multi I/O** configurations.

DOSMENU: A SpartaDOS menu for Atari DOS 2 lovers.

PROKEY: 20 programmable softkeys, show current pathname, plus many more built in commands!

CLEANUP: Rebuilds corrupted SpartaDOS disks.

Requirements

- Requires the **SpartaDOS Construction Set (SDCS)** or **SpartaDOS X (SDX)**.
- Runs on any Atari 8-bit computer with at least one disk drive.

SDTK **$39.95**

FlashBack!

It's our new **SpartaDOS** Hard Disk and **Multi I/O** backup utility designed to save you time, effort, and most important, your files!

With **FlashBack!**, the manual process of copying files is instantly eliminated and replaced with an abundance of automated functions — functions that will take the "manual" out of the procedure once and for all!

Features

- **FlashBack!** automatically creates subdirectories as needed.
- Allows selective backup by date or archive bit.
- Optionally formats each diskette before copying any files to it.
- Allows files to be "split" across diskettes.
- Creates a complete listing of directories and files copied.
- A solution to disk fragmentation which slows down disk I/O.

## Requirements

- Runs on any Atari 8-Bit computer.
- Requires **SpartaDOS Construction Set (SDCS)** or **SpartaDOS X (SDX)**.

FLB **$29.95**

US Doubler

Expanding the 1050's strength is what ICD's **US Doubler** is all about — a true performer in the niche of hardware modifications. With the simple addition of this chip set, your Atari is transformed into a powerhouse, radiating with innovative qualities never before possessed in a 1050 Disk Drive — like true double density for greater storage and an accelerated I/O rate designed to triple your speed when combined with **SpartaDOS**.

Furthermore, the **US Doubler** is fully compatible with existing Atari software and not only supports single density, but also true double density and the 130KB "Dual Density" as well.

Features

- High speed disk I/O for extremely fast reading and writing of your files (54K Baud).
- Allows true double density (180K per diskette).
- Very easy installation — takes less than 20 minutes.

Requirements

- Installation is required — **No** soldering necessary.
- **SpartaDOS Construction Set (SDCS)** or **SpartaDOS X (SDX)** is required for high speed I/O operation.
- For installation in an Atari 1050 disk drive *only*.

USD (*includes SpartaDOS Construction Set*) $69.95
USD 1-4 (*chip set only*) $39.95
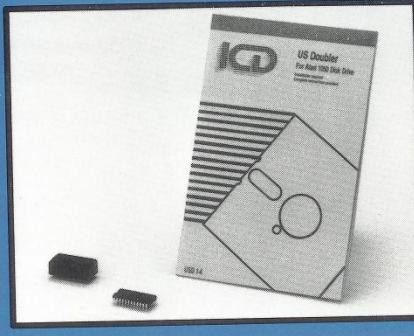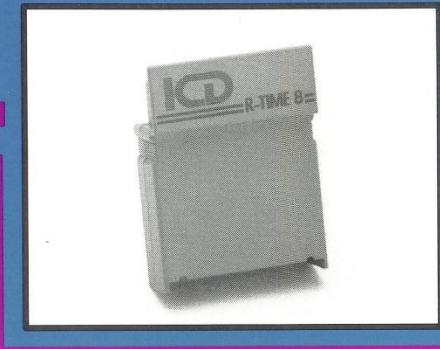
R-Time 8

We've got the *time* if you've got the Atari. In fact, the **R-Time 8** will provide you with continuous and automatic date information as well! Its unique piggyback cartridge sports an accurate clock with a three to five year battery back up system. Our unique top extension port welcomes the use of additional cartridges since this handy device of ours requires no cartridge area memory of its own. What's more, the **R-Time 8** works with all DOS types and plugs into any slot on your Atari computer.

Put our **SpartaDOS** to work with the **R-Time 8** and just like magic — each file you create is instantly tagged with the current time and date. We're sure that the **R-Time 8** will add a new and exciting dimension to your Atari, one that you'll rely on *time* after *time*.

Features

- Compatible with *all* other 8-bit products in this catalog (including the language cartridges **BASIC XL/XE, ACTION!, and MAC/65**).
- Our unique Z: handler allows easy access to this cartridge from BASIC or any other language.
- **SpartaDOS** automatically recognizes the **R-Time 8** and uses it for its time base.
- Amazing Time/Date display line to keep you up to date (works with any DOS).
- An accurate time system that is tuned like a watch.

Requirements

- Runs on any Atari 8-bit computer.

RT8 . . . . $69.95

MAC/65

It's no wonder why we've dubbed our assembler as the *Big Mac* of the Atari 8-bit world! With super fast memory-to-memory assemblies at the rate of hundreds of lines per second, this title says it all.
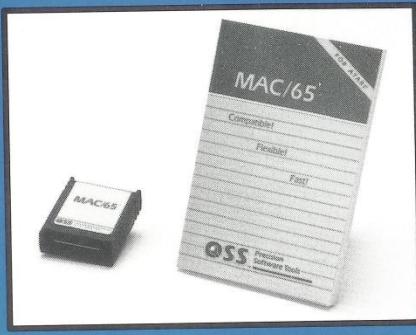
MAC/65 is the fastest and most complete macro assembler you'll ever find on the market. It's the industry standard because it's state-of-the-art.

Features

- Powerful cross reference capabilities.
- An extensive two mode line editor allows you to code with confidence, knowing that **MAC/65** in Edit mode will check each line for any syntax errors.
- Convert from any assembler to **MAC65** with ease using Text mode, a simple and familiar line-oriented editor for any text.
- Don't be afraid to use lots of comments in your source code, because **MAC/65's** unique tokenizer will save your valuable memory and disk space.
- Compatible with the Atari Assembler/Editor.
- Produce assembly code that's as readable as BASIC with **MAC/65's** macro capability.
- Get started fast, because MAC/65 comes equipped with source code for several BASIC look-alike macros.
- Swap between assembling and debugging with one command, because **DDT (Dunion's Debugging Tool)** is the best integrated debugger for your Atari Computer.

Requirements

- Runs on any Atari 8-bit computer.

M65C **$79.95**
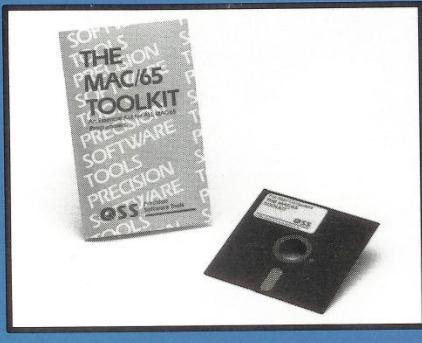
MAC/65
ToolKit

With a little help from the **MAC/65 ToolKit**, you'll soon be programming in assembly language. The dozens of macros found within the framework of this toolkit make the job so much easier. Suddenly familiar commands are at your fingertips and the benefits of using a high level language are all yours!

Features

- Save hours of work and produce more readable programs with macro equivalents of dozens of familiar commands. Program with BASIC-like macros such as: POKE, GOSUB, GET, PLOT, SETCOLOR and SOUND.
- Take advantage of structured programming macros such as IF and DO.
- Utilize Atari's superior graphics with ease, thanks to macros which set up Player/Missile Graphics, allow player and missile movements, detect collisions, and much more.
- Implement fine scrolling capabilities with simple easy to use macros.

Requirements

- Requires the **MAC/65** cartridge (**M65C**).
- Runs on any Atari 8-bit computer.

M65TK **$29.95**

ACTION!

Lights! Camera! **ACTION!**
Truly a language which
deserves its place under the
spotlight. With star-studded
qualities which focus on the
finest attributes of both
PASCAL and C, plus record
setting speed that accelerates program run time from 50 to 200 times faster
than BASIC!

See for yourself why **ACTION!** receives a standing ovation from
programmers nation wide for its award-winning performance in the world of
high level languages. Definitely a hard act to follow!

Features

- Write readable programs with features such as FUNCtions,
  PROCedures, IF..ELSE..ENDIF, DO..UNTIL, WHILE, and more.
- A self-contained structured language system in a cartridge that you
  command with four separate, yet well integrated components: Monitor,
  Editor, Compiler, and Library.
- The program editor is cited by many as better than most popular word
  processors. Be amazed at how easy programming can be with 240
  characters per line, two windows, and a fully scrolling editor.
- Compiles even large programs in seconds.
- Save time in development with **ACTION!'s** built-in library of
  commonly used routines.
- Enjoy real convenience when you compile programs from memory or
  disk. Even INCLUDE files from these devices.
- **ACTION!** has a flexible set of 8 and 16 bit data types, including
  pointers, arrays, records, and more.

Requirements

- Runs on any Atari 8-bit computer.

ACTC $79.95

ACTION! ToolKit

The **ACTION! ToolKit** is your resource to a superior display of subroutines and demo programs that take you behind the scenes for a closer look at the **ACTION!** language and explore its endless possibilities.

Get the most out of **ACTION!** with the tools that know how to get you there.

Features

- Utilize the **ACTION! ToolKit's** Player/Missile Graphics subroutines to write you own games or to visualize **ACTION!'s** blazing speed!
- Learn new graphics techniques with the special set of Turtle Graphics routines.
- Quickly sort BYTES, INTegers, CARDinals and string arrays with special QuickSort routines.
- Get a jump on writing your own arcade games with the **ACTION! ToolKit's** exciting game demos. Each game comes with full source code so you can adapt or modify any parts you wish.
- Plus much more, including a colorful kaleidoscopic demo, a music demo, and a floating point package that will allow you to use floating point numbers in your **ACTION!** programs!

Requirements

- Requires the **ACTION!** cartridge (**ACTC**).
- Runs on any Atari 8-bit computer.

ACTK **$29.95**


ACTION! RunTime Package allows you to run **ACTION!** programs without installing the cartridge. Now share your programs with friends who don't have **ACTION!** yet.

ACTRT **$29.95**

BASIC XL

BASIC XL is one language that was born to run — and you'll see just exactly what we mean when you load any Atari BASIC program and watch it go!
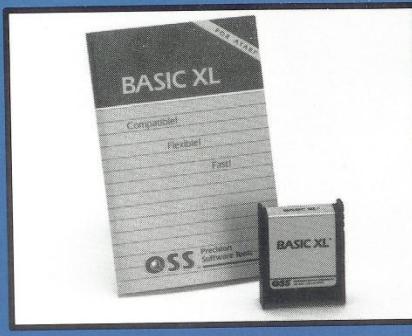
And let's not forget that this 16K super-cartridge saves more than just your time, it stretches your memory by using only 8K of memory space. Now that's memory mileage worth talking about!

Take the load off your programming time and space. Run in the fastlane with **BASIC XL**.

Features

- Guaranteed to run almost any Atari BASIC program faster. Now get results faster than you thought possible.
- Supports structured programming practice with statements such as IF .. ELSE .. ENDIF and WHILE .. ENDWHILE.
- Dazzle your friends with graphics, via **BASIC XL's** stunning Player/Missile Graphics commands.
- Become a debugging whiz, with **BASIC XL's** neat and easy-to-follow program listings.
- Keep your mind on programming and not on line numbers with **BASIC XL's** NUMber and RENUMber commands.
- Save programming time with **BASIC XL's** English error messages.
- Enjoy more than 40 additional commands allowing you the flexibility to perfect you own programming style — additional commands to perform DOS functions, string array manipulation, custom number formatting, record I/O, and more!

Requirements

- Runs on any Atari 8-bit computer.

BXLC **$59.95**

BASIC XL ToolKit
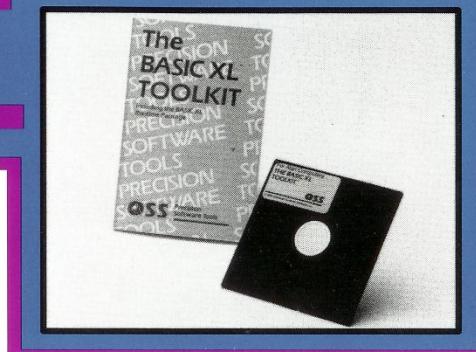
Our **BASIC XL ToolKit** not only promotes a list of commands that add more versatility and strength to an already power-packed cartridge, but also comes equipped with the **"RunTime Package"**.

A favorite among **BASIC XL** programmers, the **"RunTime Package"** enables your **BASIC XL** programs to perform even in the absence of your **BASIC XL** cartridge. In other words, now you can share your programs with your friends who have not purchased **BASIC XL** yet!

Features

- Includes the **"RunTime Package"** which allows your programs to run without the **BASIC XL** cartridge installed.
- Find out how much better programming can be when you can CALL named PROCEDUREs with parameters, use LOCAL variables, and return parameters back to the caller with the powerful EXIT command.
- Sort string arrays with numerous options using the new SORTUP and SORTDOWN commands.
- Get started quickly with sample programs that show off the speed and versatility of the **BASIC XL** language.

Requirements

- Requires the **BASIC XL** Cartridge (**BXLC**).
- Runs on any Atari 8-bit computer.

BXLTK $29.95

BASIC XE

What good is more memory
if you can't use it? That's
exactly what we said — and
that's why 130XE users need
BASIC XE — so you can get
the memory you paid for
without the limitations of a
RamDisk. Triple your program and data space in an instant just by typing the
EXTEND command. It's that easy!

And not only does it give you immediate access to all that memory, but it makes
programming a breeze. Imagine a 60K byte program running faster than a ten
line Atari BASIC program.

Features

- In EXTENDed mode you get over 60,000 bytes of program memory
  and 35,000 bytes of independent data memory.
- Structured programming gives you the benefits of Pascal-like program
  structures without sacrificing BASIC's simplicity.
- Supports named PROCEDURES and CALL by name, LOCAL
  variables, parameter passing, and advanced EXIT controls.
- Sort arrays of strings or numbers faster than you ever thought possible
  with the powerful SORT command.
- Save hours of computing time with **BASIC XE's** all-new set of fast
  math operations.
- More than 40 additional commands packed with power, yet the
  super-cartridge takes only 8K of memory.

Requirements

- Runs on any Atari XL/XE Computer with at least 64K memory.
- For extended memory operation, requires 130XE, 800XL/1200XL with
  RAMBO XL (or other compatible memory upgrade), or expanded XE
  Game System.

BXEC $79.95
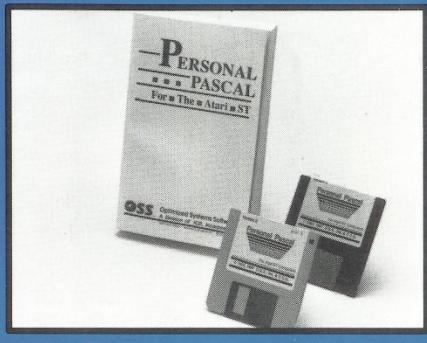
Personal Pascal

Personal Pascal is a sophisticated Pascal development system designed specifically for the Atari ST. It starts you on your way with the international standard (ISO) and then proceeds to add dozens of expert features your ST understands. Extending full mouse support, **Personal Pascal** provides you with, by far, the best and easiest access to a wide variety of direct **GEM** routines, including windows, alert boxes, and dialog boxes.

Features

- Integrated Compiler, Linker, Editor, and Library let you program efficiently.
- Fast single pass compiler.
- Powerful GEM oriented editor with *full* mouse support.
- Contains a complete, self-contained GEM library with access to alert boxes, window management, mouse control and more.

Requirements

- Runs on any Atari ST computer.
- A hard drive is recommended but not required. Personal Pascal will run on two floppies (or a RamDisk and one floppy).

PPST **$99.95**

BBS Express! ST

Introducing the advanced Bulletin Board System (BBS) that everyone's talking about. Why? Simple — its the best!

BBS Express! ST challenges any BBS around with a more advanced generation of power and new online enhancements. Written by Keith Ledbetter, author of the popular **Express!** programs, you know you're getting first-class, bullet proof software with a reputation for "user friendly" operation.

So, if you're searching for a BBS that gives you a leading edge in performance — Express! yourself with **BBS Express! ST**. It's the only bulletin board system worth talking about.

Features

- Full descriptions on all upload and download files.
- Fully threaded message bases.
- Up to 32 IMS trackable surveys.
- Advanced "script language" processor allows remote order entry — read product descriptions, place orders, enter credit card numbers, etc. Plus, you can write your own "script" menus, etc.
- Complete online sysop maintenance.
- Fast, dependable file downloads with XMODEM or YMODEM protocols.
- 40/80 column support!
- Color/monochrome operation — full color support for VT52.

Requirements

- Runs on any Atari ST computer
- A Hard Drive is strongly recommended!

BBST **$79.95**

FA•ST
Tape Backup

Backup for your future and make data loss a thing of the past. The **FA•ST Tape Backup** secures up to 155 megabytes of valuable data at a rapid rate of 6.5 megabytes per minute (52 megabits). And it keeps all of that data on the right track, in file or image backup mode.

If that's not enough, the **FA•ST Tape Backup** can pack a complete hard drive mechanism right inside its compact case. Choose from either a 50 or 90 megabyte system — when you really need a Backup with a lot of drive.

Features

- Fast error-free backup secures 155 MBs of data at a rate of 6.5 MB/min.
- Individual file recovery on restore with user friendly graphic interface through GEM. Supports Spectre 128™ and Magic Sac™ partitions in image backup mode.
- Stylish under-monitor case can hold a hard drive for a complete and powerful system. 50 or 90 megabyte drives are available at your request.
- SCSI IDs are easily selected on the back of the case, promoting daisy chaining with other hard drives and SCSI devices.
- Battery backed up time/date clock keeps your data on schedule.

Requirements

- Runs with an Atari ST computer.

FTBST $899.95
FTB50ST *(with 48.5 Meg Drive)* $1449.95
FTB90ST *(with 92.5 Meg Drive)* $1749.95
Call for other sizes and availability.

FA•ST Data Cassette *(high density tape holds 155 MBs of data)*
CT-600XLN $34.95

Tape Cleaning Kit
TZ-380 . . . . $24.95

FA•ST Hard Drive

Introducing the ST Hard Drive System from ICD that refreshes your memory better than any other ST hard drive around.

It's the drive that not only looks cool, but stays cool too with a built-in fan that knows exactly how to beat the heat and maintain a cool and collected environment — even in your most heated situations.

And, it's the hard drive that takes a refreshing approach to aesthetic case design as well. See for yourself. It's easy on the space, fitting perfectly under the monitor. And it's easy on the eyes, tailored to look great in the company of your Atari ST. With adjustable front legs, your monitor gets the lift it needs for comfortable viewing.

Features

- Stylish under-monitor design requires no additional desk space and provides a much needed monitor stand for ST computers.
- Built in clock with battery backup for the right time — every time.
- Whisper-quiet fan keeps it cool.
- Heavy duty adjustable legs adjust monitor angle and provide cable clearance.
- Daisy chaining with DMA input and output ports for connection to other DMA devices (hard drives, etc.) — makes backup a breeze!

Requirements

- Runs with any Atari ST computer. Just choose the capacity!

FA20ST *(20 Meg Drive)*	$699.95
FA30ST *(30 Meg Drive)*	$799.95
FA50ST *(50 Meg Drive)*	$899.95
FA90ST *(90 Meg Drive)*	$1249.95
FA22ST *(Dual 20 Meg Drive)*	$999.95
FA32ST *(Dual 30 Meg Drive)*	$1199.95
FA52ST *(Dual 50 Meg Drive)*	$1399.95
FA92ST *(Dual 90 Meg Drive)*	$2099.95

Call for other sizes and availability.
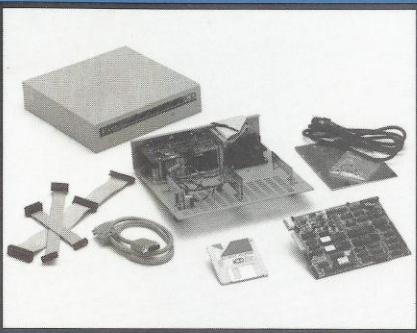
FA•ST Hard Drive Kit

If you happen to have an IBM compatible 3 1/2" or 5 1/4" half height hard drive just waiting to work with your Atari ST — wait no longer!

Our **FA•ST Hard Drive Kit** includes everything (and we mean *everything*) you need to transform your drive into a compatible stylish partner for your Atari ST.

Features

- Stylish under-monitor design requires no additional desk space and provides a much needed monitor stand for ST computers.
- Built in clock with battery backup, just in time for your ST.
- Whisper-quiet fan keeps it cool.
- Heavy duty adjustable legs adjust monitor angle and provide cable clearance.
- Your choice of an MFM or RLL SCSI Controller.
- Just add your own ST506/ST412 (IBM compatible) 1/2 height hard drive — absolutely everything else is included. (Embedded SCSI drives are also supported.)
- Daisy chaining with DMA input and output ports for connection to other DMA devices (hard drives, etc.)
- MFM, RLL (50% more storage capacity), and controllerless versions are now available.
- Service is available on all drive systems made with our kits.

Requirements

- RLL certified drives are strongly recommended if you plan on using the RLL version of the kit!

FMST *(Includes an MFM Controller)* $419.95
FRST *(Includes an RLL Controller)* $449.95
FNST *(for embedded SCSI drives)* $309.95

ST Host Adapter

Now you have an alternative to pre-packaged hard drive systems for the Atari ST! ICD's **ST Host Adapter** allows you to build your own hard drive system using standard components. Connect an SCSI controller to use industry standard ST506/ST412 type hard drives (found in IBM PCs) or connect SCSI embedded drives directly to our **ST Host Adapter**. ICD's swift software supports multiple drives, error checking, and booting from the hard drive! We can supply controllers, cables, cases, power supplies, and drives, at competitive prices and answer any questions you may have about a "do-it-yourself" drive system.
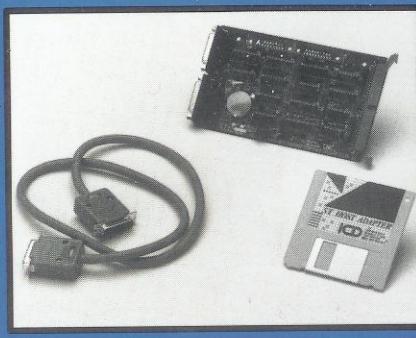
Features

- Built in battery backed-up Time/Date clock which automatically sets the TOS clock.
- Supports up to 8 SCSI devices from the ST DMA port.
- Allows daisy chaining of the DMA port (others don't have this feature!)
- 100% compatible with Atari and Supra Hard Drive Systems.
- ICD's AutoBoot software allows booting directly from the Hard Drive.
- Removable media drives are now supported for use with Syquest, Konica, Iomega drives and more!
- Includes format software and handlers necessary to run standard hard drives with SCSI controllers (our SCSI controllers support two drives).
- ICD's hard disk handler is the only one available with built in verify and error retry to insure error-free read and write — with others you can never be sure!

Requirements

- Works with any Atari ST system.

STHA $135.95
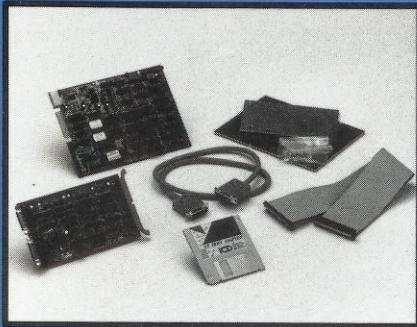
ST Host Adapter & Controller Kit

Do you have your own case and hard drive and want to build an Atari ST Hard Drive System? — Well, the SCSI hard drive specialists bring you a new power product for the Atari ST computer. Just look at what is included with this value packed kit.

Includes

- Your choice of an MFM or RLL controller — ours support two hard drives and are among the fastest in the industry.
- Our Controller Mounting Kit which easily attaches our controllers to industry standard hard drives. This kit also shields the controller from the drive electronics for trouble free operation.
- Our ST Host Adapter, complete with software, 3' DMA cable, and power cable. (See specs for the **ST Host Adapter**.)
- A 50 conductor, 18" cable to connect the controller's SCSI bus to our **ST Host Adapter**.
- Service is available on all drive systems made with our kits.

Requirements

- Just add an ST506/ST412 type hard drive (IBM Compatible), a case with power supply (minimum 40 watts), and cables to connect the drive to the controller (**D/D**).
- The **STACB-RLL** kit contains an RLL controller which uses RLL(2,7) encoding and allows for 1.5 times the density *for use with RLL certified drives only!*

CKMST *(Includes an MFM Controller)* $249.95
CKRST *(Includes an RLL Controller)* $279.95

5 1/4" ST Hard Drive Kit

Do you already have your own IBM compatible hard drive? Well, this kit includes *everything* you need to turn that hard drive into a complete Atari ST Hard Drive system!
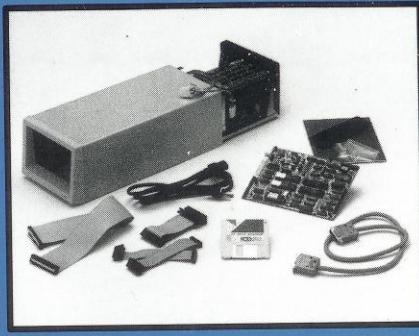
Both kits include our 5 1/4" metal case with 60 watt switching power supply, an SCSI controller with mounting/shield kit, 18" SCSI cable, a double drive cable set, and all the necessary hardware to connect your system to your Atari ST. Both MFM and RLL versions are available.

Includes

- All the parts in our ST Host Adapter Controller Kit with your choice of an MFM or RLL SCSI controller and our **ST Host Adapter** complete with software and 3' DMA cable.
- A heavy duty case with 60 watt switching power supply. (Styled to match an IBM PC.) This case holds one full height 5 1/4" or two 1/2 height 5 1/4" hard drives. (The controller supports two.) Includes a quiet fan, and all power connectors.
- All the necessary mounting brackets, shields, and cut outs for a clean, fully operational system.
- All the necessary cables to hook up everything! (Fully tested)
- Service is available on all drive systems made with our kits.

Requirements

- RLL certified drives are strongly recommended if you plan on using the RLL version of the kit!
- Just add an ST506/ST412 type hard drive (like used in an IBM PC). Everything else is included.

5MST *(Includes an MFM Controller)* $419.95
5RST *(Includes an RLL Controller)* $449.95
5NST *(for embedded SCSI drives)* $309.95
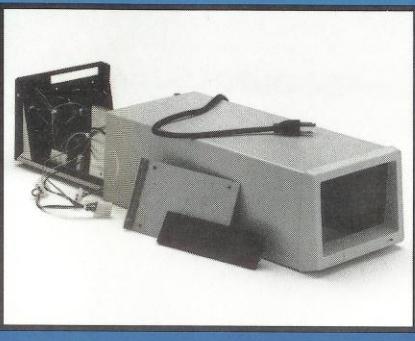
5 1/4" Hard Drive Case

Do you already have your own controller and Hard Drive? Well, this is the case for you. It handles up to two 5 1/4" half height hard drives and your controller.

These cases come with full documentation on how to build your own system and what parts are required — perfect for the do-it-yourselfer!

Features

- Powerful 60 Watt switching power supply. Outputs are +5vdc at 4 amps, and +12vdc at 2.5 amps.
- Quiet fan to keep your drives cool.
- Heavy duty case holds two half height drives, or one full height drive.
- Enough power connectors to supply two drives and the controller.
- IBM style case with dimensions of 15" × 7" × 5.5" (D × W × H).
- Includes a blank half height face plate for single drive systems.

Requirements

- To use with the **ST Host Adapter**, a cutout and mounting holes (**ST/CUT**) are required for the **ST Host Adapter Mounting Kit** (**ST/MK**). The mounting kit is a right angle bracket with threaded standoffs that conviently mounts the **ST Host Adapter** to the rear of the case.
- For complete drive kits using this case, see information on the **5 1/4" ST Hard Drive Kit** and the **5 1/4" 8-Bit Hard Drive Kit**.

CASE $145.00
ST/CUT $4.95
ST/MK $8.95

SCSI MFM & RLL Hard Drive Controllers

Looking for those "hard to find" SCSI controllers to complete your hard drive system? We have premium, new technology disk controllers which are among the most reliable in the industry, and have been fully tested with a number of drives — just perfect for the do-it-yourselfer.
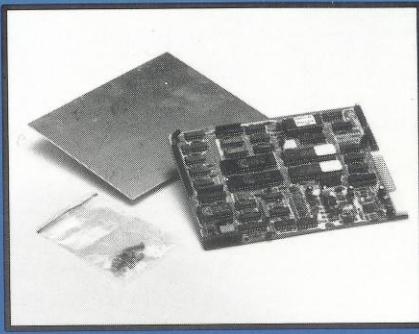
Features

- Supports up to 16 heads and 65536 cylinders.
- Supports removable media drives, and wedge servo drives like MicroScience, Syquest, and Tulin.
- Controls two **ST506/412 interface** hard drives at the same time! These can be either 5 1/4" or 3 1/2" drives. Mixed drive types can also be controlled at the same time.
- Our **ST Host Adapter** will allow up to seven of these controllers to work on the same SCSI connection!
- High speed 1:1 interleave is standard on both controllers

Requirements

- The **ICDMFM** controller is for use with MFM drives.
- The **ICDRLL** controller uses RLL(2,7) encoding and allows for 1.5 times the density *for use with RLL certified drives only!*
- A mounting/shield plate (see accessories) between the drive and controller is *strongly* recommended especially with RLL controllers!
- +12v and +5v are required (same type connector as hard drives).

ICDMFM $119.95
ICDRLL $149.95

ACCESSORIES

Controller Mounting Kit

Aluminum mounting/shield plate for Adaptec or OMTI controllers. These mount directly onto 5 1/4" hard drives and include threaded standoffs and a screw kit. This is requirement for RLL controllers (or interference may cause data loss) and is recommended for all.

UMK $14.95

Controller to Drive Cable Set

This cable set consists of two 20 conductor card edge to controller pin array connector cables, and one 34 conductor cable with 3 card edge connectors (or 2 card edge and 1 pin array connectors).

D/D-A *(for use with Adaptec controllers)* $19.95

D/D-O *(for use with OMTI controllers)* $19.95

Controller to MIO Cable

This 10′ 50 conductor cable has 25x2 female pin array connectors on each end for connecting your **Multi I/O** to standard hard drive controllers.

MIO/S $14.95

FA•ST Drive to Multi I/O Cable

This 10′ 50 conductor cable has a 25x2 female pin array connector on one end, and a centronics 50 pin connector on the other end for connecting your **Multi I/O** to our **FA•ST** series hard drives.

MIO/F $19.95

ACCESSORIES

Controller to ST Host Adapter Cable

This 18" 50 conductor cable has 25x2 female pin array connectors on each end for connecting your **ST Host Adapter** to standard hard disk controllers.

ST/C50 . . . . **$10.95**

ST DMA Cable

This is the 3' DMA cable that is included with the ST Host adapter (**STHA**). Order this if you want an extra, or you want a longer cable for your Atari SH204 Hard Drive.

ST/C19 . . . . **$24.95**

CleanUp ST!

CleanUp ST! is designed to detect any disk defect that we could conceive of and enables you to recover from most faults. **CleanUp ST!** requires the ICD ST Host Adapter in your system and works only on TOS (GEM) and PC Ditto partitions.

CLST **$29.95**

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