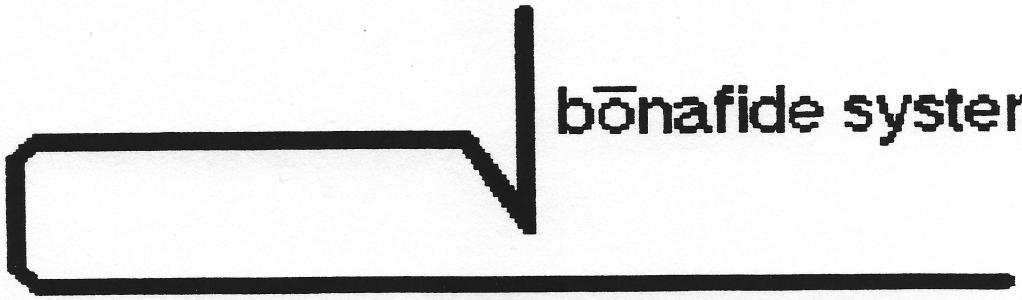

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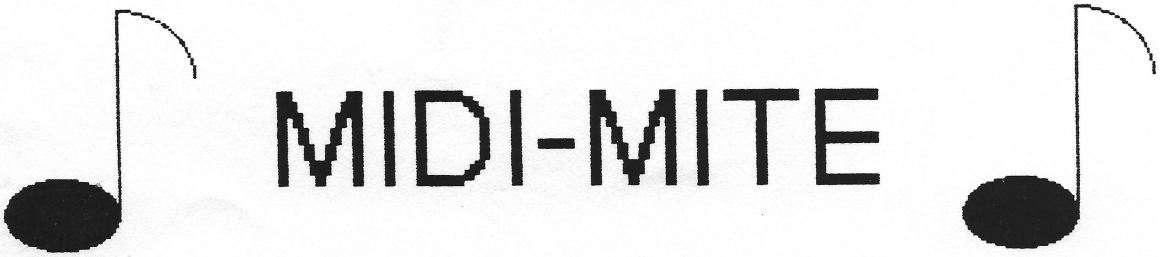

A MUSICAL INSTRUMENT DIGITAL INTERFACE
FOR THE COLECO ADAM™

LIMITED WARRANTY

BONAFIDE SYSTEMS warrants the MIDI-MITE interface and digital data packs to be free of any defects in materials and workmanship for ninety (90) days from the date of purchase. This warranty is limited to the original purchaser of the product. This warranty is invalid if the damage or defect is caused by accident or misuse of any kind.

If within ninety (90) days from the date of purchase the interface or digital data packs are found defective, BONAFIDE SYSTEMS will repair or replace them. The purchaser is responsible for returning the product and must provide a dated proof of purchase.

If after ninety (90) days the original digital data pack becomes defective, the purchaser can get a replacement copy from BONAFIDE SYSTEMS for $5.00 plus $2.50 shipping and handling. You must return the original data pack (or the remnants of it) to BONAFIDE SYSTEMS.

In no event shall BONAFIDE SYSTEMS be liable to the purchaser or any third party for incidental or consequential damages, including, but not limited to, loss of or damage to data, other programs, or storage media, loss of use, loss of business, or damage to your computer or musical instruments.

TECHNICAL SUPPORT

If you experience any difficulty in using this program, or if you have any questions or comments, please feel free to call us between 6pm and 10pm PST, at (209) 658-8530 or contact Chris Braymen via Compuserve, 70057,2035. Our address is Bonafide Systems 45280 S. Oakview Dr. Oakhurst, CA 93644. Please note that we will not be able to offer you this support unless you complete and mail the enclosed registration card.

PRODUCT REGISTRATION

To register this product please fill out and return the enclosed registration card. We must have your registration on file before we can offer any technical support. Registration will also help us keep you informed of any updates to the software and other information.

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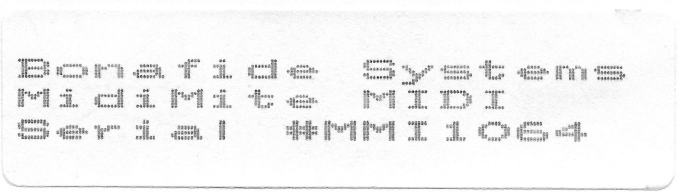

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MIDI-MITE INSTALLATION

Congratulations on the purchase of your new MIDI-MITE interface for the Coleco ADAM computer. We hope it will bring you many hours of musical enjoyment. But first...

Check the Contents of Your Package

Your MIDI-MITE package should include the following:

- *One MIDI-MITE interface
- *One ribbon cable (already attached to the interface)
- *Two MIDI cables
- *Two Digital Data Packs containing MIDI software entitled "VT PLAYER" and "MINI RECORDER"
- *Three manuals (this one, plus one for each program)

Plugging Things In

First, make sure your computer is turned off. Then take a look at the right side of the computer. There you will find a "garage door" called the "side port". Raise the door of the side port and take a peek inside. You will see the protrusion of a small circuit board. Orient the interface so the rubber feet are down and the ribbon cable faces the computer. The green dot at the end of the ribbon cable should be facing up. If you plug it in upside down you may seriously damage your computer or interface. Gently plug the loose end of the ribbon cable onto the circuit board in the side port. If you already have something plugged into the side port (auto dialer, RS232 interface, etc.) you will, of course, need to unplug it first.

Now turn your computer on. If the familiar typewriter screen comes up, you and your interface are doing well. If you don't see the typewriter screen, turn the computer off, unplug the interface and try again. It is possible that the cable didn't seat correctly. If after a second try, it still doesn't work your interface may have been damaged in transit. Please consult the instructions under the limited warranty provisions in this manual.

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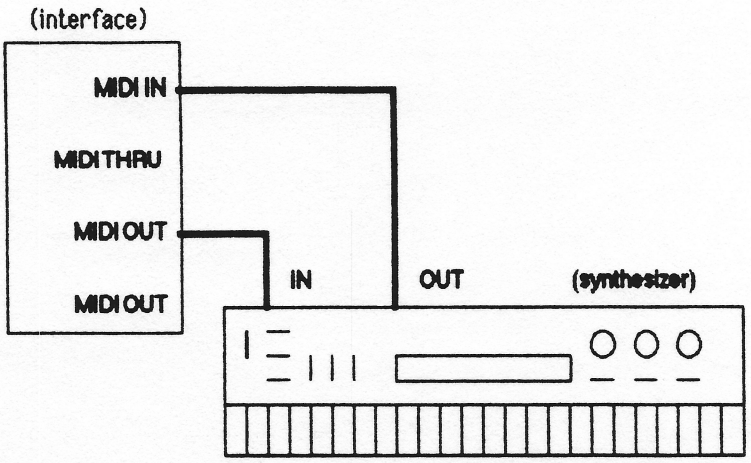
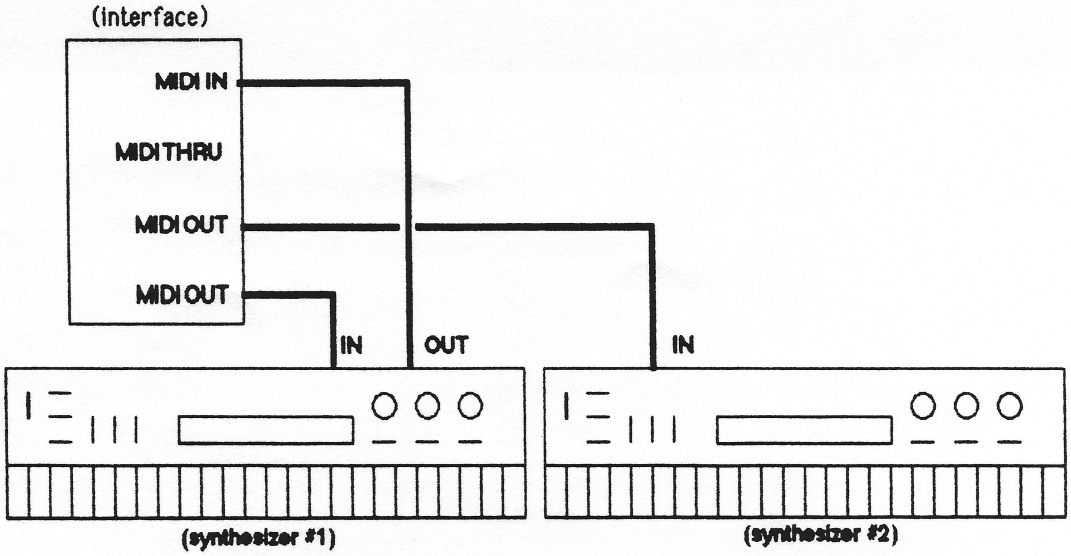
OTHER CONNECTIONS

To connect your MIDI interface to your MIDI synthesizer use the two cables provided and just remember IN goes to OUT and OUT goes to IN. (See diagram below.)



A simple MIDI set-up

Your synthesizer will send information out its MIDI OUT and your ADAM will recieve the information in its MIDI IN. Likewise, your ADAM will send information out its MIDI OUT which will be recieved by your synthesizer in its MIDI IN. The MIDI-MITE interface is equipped with 2 MIDI OUTs so you can connect more that one synthesizer to your ADAM. In the following setup, ADAM will record from synth #1 and playback though both synth #1 and synth #2.



Connecting two synthesizers

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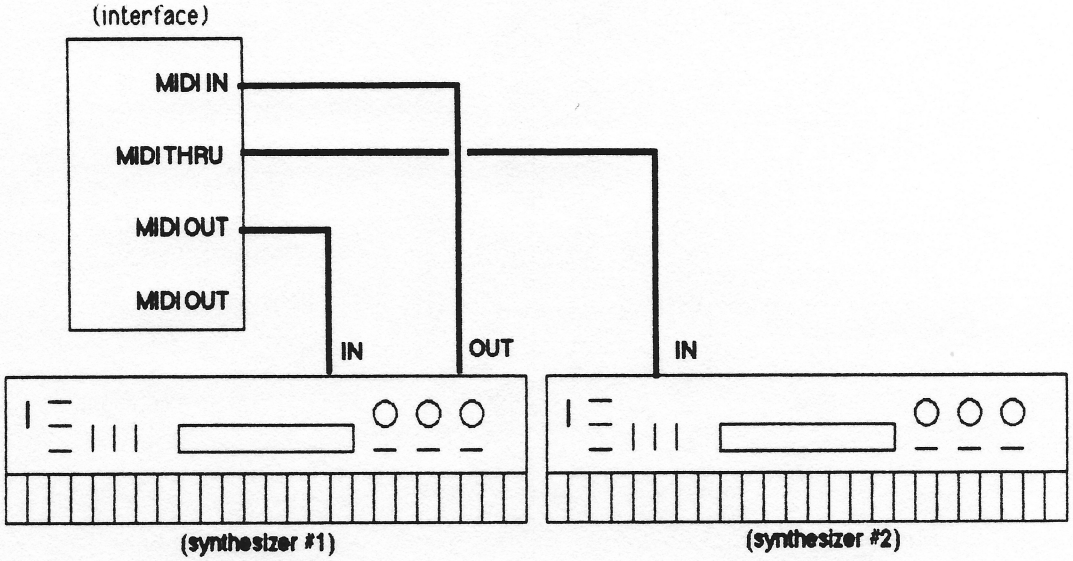
The MIDI THRU is just a "repeater" of information. Any information that comes into the MIDI IN is automatically sent out the MIDI THRU. This may be useful if you want to control one keyboard from another. In the following setup, anything that is played on synth #1 will simultaneously be played on synth #2. The ADAM will record and playback on synth #1 only.



Controlling one synthesizer from another

A WORD ABOUT OMNI MODE

Those of you with selectable "OMNI mode" on your synthesizers will get better results if you turn it off. If "OMNI mode" is on while your synthesizer receives information, it will play music through one channel only.

ADDITIONAL INFORMATION AND SUPPLIES

Most music stores that carry synthesizers will also carry MIDI cables and books about MIDI. There are also mail order companies that do a good job. The MIX Bookshelf (800) 233-9604 has just about everything you could need. The official MIDI spec is available from The International MIDI Association, 5316 West 57th St., Los Angeles, CA 90056 (213) 649-6434. They charge a fee of $30-$35 for this information.

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TECHNICAL INFORMATION

MIDI is a serial transmission protocol that operates at 31.25 kilobaud, asynchronous, 8 data bits, no parity and one stop bit. The chip inside your interface that handles the serial I/O is the 2651 USART. It is addressed as follows:

read data reg.	port 08H
read status	port 09H
read mode	port 0AH
read command	port 0BH
write data	port 0CH
write status	port 0DH
write mode	port 0EH
write command	port 0FH

RX_RDY generates a mode 1 interrupt so your receive routine can be either polled or interrupt driven. Be aware that the Super Action Controller roller also generates mode 1 interrupts and this may cause problems when both devices are connected at the same time.